



SPECIAL EQUIPMENT

NEUENHAUSER
ONTEC



CONTENT

Neuenhauser was founded in 1955 as a design and manufacturing company. It has specialized in the field of automated transport systems for the various production processes of textile spinning mills and the associated individual needs.

Neuenhauser offers a wide range of automatic systems for the transport of spinning cans, roving bobbins, and yarn packages, as well as palletizers or depalletizers and related downstream systems such as carton or polybag packaging systems. The automatic quality control of yarn packages by means of Vision Systems, named QCS, has also become an essential process in modern spinning mills.

The portfolio is rounded off by the use of Automatic Guided Vehicles (AGVs), which are widely used in various industries but are rarely found in the textile industry.

In addition to the quality feature „Made in Germany“, Neuenhauser Textile Division Automation places the greatest

value on continuous product and process innovations, the use of „state of the art“ technologies, and sustainable products. The name Neuenhauser enjoys an excellent reputation worldwide. The reference list reads like the „who is who“ in the textile industry.

The business unit Textile Machinery of ONTEC Automation GmbH was taken over by Neuenhauser in November 2022. The products of „Textile Machinery“ will be continued under the brand „Neuenhauser-ONTEC“. Sales and product management, construction and service will be located in Naila, Bavaria whereas the manufacturing plant will be located in Neuenhaus, Northwestern Germany.

Neuenhauser sees itself not only as a system supplier of automation solutions in various stages of expansion, but more as a long-term partner who always has an open ear for the daily new challenges and optimizations of the processes that our customers must face.

1	Laminating Systems	p. 4
2	Rerolling Units	p. 9
3	Units for Production of Sealing Membranes	p. 10
4	Line Components for Refinement / Finishing of Carbon Fabrics	p. 14

1

LAMINATING SYSTEMS



Laminating machines are used to connect one or more fabric panels with each other. Lamination is used to combine the properties of two different materials and thus achieve new resp. improved material properties of the combined fabric panel. This procedure is mainly done by the use of adhesives or by application of pressure and temperature.

Areas of application for lamination include roofing lining membranes, functional clothing and numerous special applications. Our systems are of modular design and can be configured according to the requirements. As a machine manufacturer with many years of experience, we develop system solutions in the field of laminating machines that are individually adapted to the needs of our customers. With the machine parts developed by us and optional components, we plan optimal and efficient production lines together with our customers.

UNWINDING EQUIPMENT

- Single and multi-position unwinders
- Automatic connection stations
- Automatic transversal cutting devices
- Automatic edge controls



ACCUMULATOR

- Tension control via load cells
- Drive of the storage trolley by spindles with individual drives
- Storage content adapted to line speed
- Inlet and outlet draw-off units in various designs



LAMINATING UNIT

- Two- or multi-roller versions
- Rolls optionally heated and/or cooled
- IR preheating sections
- Supports for application units, e.g. hot-melt spraying devices or powder spreading devices
- Cooling zones
- Horizontal or vertical dryers with different heating possibilities



WINDING EQUIPMENT

- Depending on the product either centre or surface winder or combined winder
- Partial or fully automatic versions
- Longitudinal and transversal cutting units
- Roll ejector
- Film packaging
- Roll transport trolley with swivel mechanism
- Winding shaft handling



2

RE-ROLLING UNITS



Re-rolling units are used for the finishing of rolled fabrics. These machines are designed and constructed according to customer-specific requirements. In addition to simple and cost-effective variants, fully automatic systems are also available.

Longitudinal cutting units

- Optionally as scissor cut or crush cut
- Individual drives of scissors possible

Winding devices

- depending on the product, optionally centre winder or surface winder, or a combination of both types
- fully automatic execution as multiple position turret winder with lay-on device
- transversal cutting units
- roll ejector unit
- banderoling devices
- film packaging
- roll transport trolley
- winding shaft handling

Unwinding devices

- Single or multiple unwinder
- Automatic connection stations
- Automatic transversal cutting unit
- Automatic edge control



3

UNITS FOR PRODUCTION OF SEALING MEMBRANES

Units for the production of sealing membranes in connection with an extrusion coating.

In these plants, a carrier web is unwound and coated on one or

both sides. The carrier web can be a film, a paper web or other materials.

After coating, the web is cooled in a water bath and, if necessary,

laminated with a protective film. The finishing of the material is executed in inline mode, in combination with a fully automatic 3-station turret winder and subsequent film packaging.



UNWINDING DEVICE

- Single or multiple position unwinder
- Connection station
- Automatic transversal cutting unit
- Automatic edge control



ACCUMULATOR

- Comb or standard accumulator
- Drive of the storage trolley by spindles with individual drives
- Storage content adapted to line speed
- Inlet and outlet draw-off units in various designs

CALENDER

- Two-roller version
- Rollers optionally heated and/or cooled
- IR preheating sections
- Optionally as calibration calender
- Cooling zones
- Horizontal or vertical dryers with different heating possibilities
- Unwinder for protective films
- Water bath with cooling device



WINDING DEVICE

- Depending on the product either as large or small roll winder
- Partial or fully automatic versions
- Longitudinal and transversal cutting units
- Roll ejector unit
- Film packaging and roll transport trolley
- Winding shaft handling



4

LINE COMPONENTS FOR REFINEMENT / FINISHING OF CARBON FIBRES

CARBON FIXATION IN CONNECTION WITH THE WEAVING PROCESS

WINDING DEVICE

- Depending on the product either as large or small roll winder
- Longitudinal and transversal cutting units
- Film packaging
- Winding shaft handling



UNWINDING DEVICE

- Single or multiple position unwinder
- Automatic transversal cutting unit
- Automatic edge control



MELTING EQUIPMENT



High-temperature oven for thermal treatment of carbon fabrics.



Powder melting equipment, optionally with gas or electric heating.

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