

Tailor-Made Solutions for the Production of Technical Textiles



*Create intelligent solutions.*



## Sophisticated Line Concepts for Maximal Capacity.



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Textile Coating Industry

Tailor-Made Solutions for the Production of Technical Textiles

Tailor-made line concepts for the highest production quality and maximum productivity: That is what we offer to the technical textile industry. To achieve this, we revert to our comprehensive range of line components and elaborate an individual line concept, in co-operation with the customer and engineering partners. Thus Olbrich realises highly productive lines to achieve the highest capacity.

### Our Customers' Products

- Tarpaulins for trucks and other applications
- Roof sheeting, reservoir lining
- Textile application, tents and blinds
- Billboards
- Printing blankets
- Boats / inflatable articles
- Functional textiles and protective clothing
- Conveyor belts / driving belts
- Other kinds of coating fabrics (special applications)





### Inline Production Technology

From the relatively simple line through to the complex production of tarpaulin materials and billboards, Olbrich always has the ideal solution.

All production stages for working widths of 2 m, 3.4 m and even 5.4 m are realised on Olbrich lines.

Olbrich is an innovative partner and solutions provider – for both turnkey projects as well as individual machines. This, of course, also includes a modern drive and control technology complete with the latest system software that is planned and installed at the Olbrich premises.

We also offer you these services for the retrofitting of used lines, even for lines supplied by other manufacturers.

### Flexibility is the keyword.

Coating machines and dryers are the key to successful production processes. Combined coating machines for direct and indirect coatings, vertical coating machines, reverse roll coaters and coaters with revolving heads are standard modules in the Olbrich product range.

Olbrich offers special drying options: Vertical and horizontal dryers, floatation dryers, all with the aim of offering you the best possible solution.

However, even more is needed: Unwinders and winders, web controls, Accumulators, surface finishing such as embossing and smoothing as well as laminating equipment make up a functional coating line.

### Line Concepts

- Inline-coating- and -lacquering lines
- Coating lines for PVC-/PU-/PTFE-coated products
- Coating lines for rubber-coated textiles
- Coating lines for artificial leather
- Lacquering lines
- Laminating lines



### Coating

The variety of coating applications requires specialized coating machines. Olbrich supplies for many processes the right system:

- Floating knife [horizontal, vertical (double-sided)]
- Knife Coater
- Roll Coater, Reverse Roll Coater
- Dip coating / Foulard
- Screen Coating
- Pressurized chamber doctor

### Drying / Gelling

The applied coating compound has to be dried, gelled or foamed. Various processes are used for this purpose. Olbrich offers them all:

- Vertical and horizontal drying systems
- Recirculated air drier
- Gelling oven
- Radiation drier
- Infrared heating systems

### Printing / Lacquering lines

- Off-line lines for high lacquering / printing speeds
- In-line lines to produce finished products in one passage through the line
- Stripe printing lines
- Lacquering technology for water-based and solvent-based systems
- Forward or reverse lacquering in one machine
- Special lacquer circulation pump and heating systems with integrated rinse cycle
- Fully-automatic gap and pressure regulation for highest reproducibility accuracy in combination with formulation administration

### Laminating

Laminating several webs of different materials can be a simple task or a complex process. Olbrich offers solutions for many products with different lamination processes.

- Wet lamination
- Hot lamination
- Adhesive lamination



### Embossing / Smoothing

3D product surface (for optical or technical reasons) by embossing and smoothing units

- Embossing units
- Register embossing
- Turret embossing (multiple rollers in one unit for quick change of pattern)
- Smoothing calander

### Winding an Wrapping

For the completion of the production processes there is a great variety of unwinding and rewinding devices available which can be adapted to the line concept.

- Single-station rewinder / unwinder
- Double-station rewinder / unwinder
- Turret winders
- Winding and Wrapping Units

### Web control systems

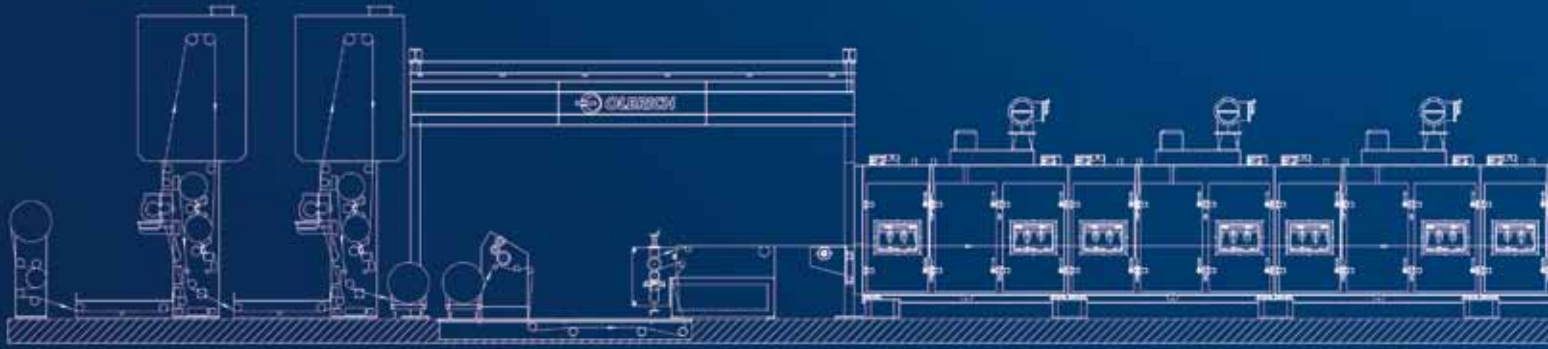
Web control is a critical parameter in many coating and lamination processes. For providing and keeping correct tensions during the production process Olbrich builds:

- Web accumulators (Spindles and chain)
- Web inverters
- Pulling stations
- Web tension controls

### Drive and control technology

The electrical engineering equipment, the drive technology and the control lines are designed and constructed by Olbrich. As a close business partner of manufacturers of drive components Olbrich uses state of the art technology to realize innovative drive concepts. Olbrich is not only able to integrate further units but to realize process visualizations and management information systems as well.





Pilot Plant

## Realising Innovation – Our Pilot Plant!

➤ You want to know more: [www.olbrich.com/pilotplant](http://www.olbrich.com/pilotplant)

To ensure reliable, precise and trouble-free operation of your line from the start, at Olbrich each line is individually tailored to the specific requirements for the production of technical textiles. For this reason we use our pilot plant, because especially for the development of new machine concepts and innovative processes or product ideas it is important for planned investments to gain proven insights on real production conditions.

Apart from a multi-purpose coating and laminating line (material widths up to 600 mm) and a state-of-the-art laminating and embossing line (material widths up to 1.000 mm), our experienced process engineers use comprehensive computer-based simulations and process analyses to help advise you.

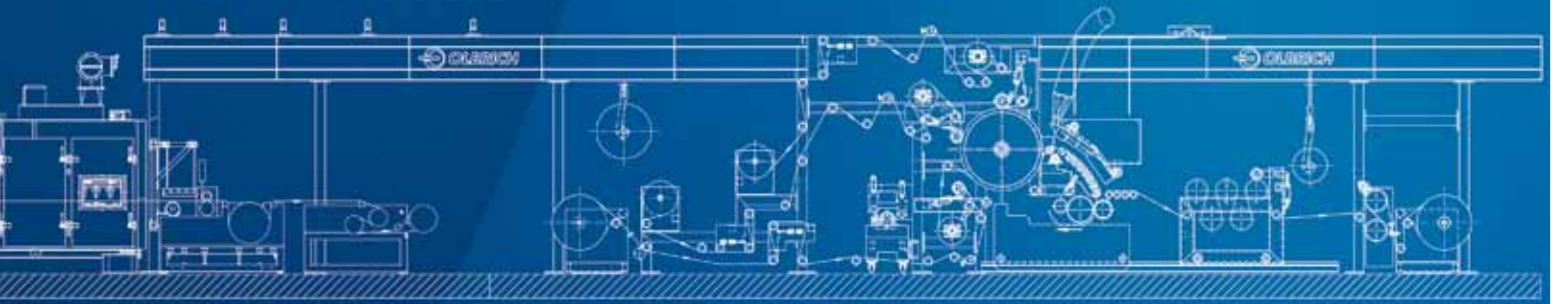
Come, look and see!

### Technologies

- Coating processes (RRC, RC, spreading machine and others) for PVC emulsions
- High-efficiency driers with special nozzle design for all coating media
- Material-preserving conveyor belt systems
- Gelling processes by means of a gelling oven or a gelling drum
- Printing processes – gravure and screen printing
- Embossing technology including register embossing processes
- Lacquering processes (direct and indirect) for water-based systems, solvent-based systems and 100% lacquer systems
- UV-light curing systems
- Various infrared heating fields for temperature control
- Laminating technology, including multilayer product structures

### Lines

- Multifunctional coating and printing lines, working width: max. 550 mm
- Production-related laminating and embossing line, working width: max. 1.000 mm



Company

## Inspiring Engineering – Convincing Technology!

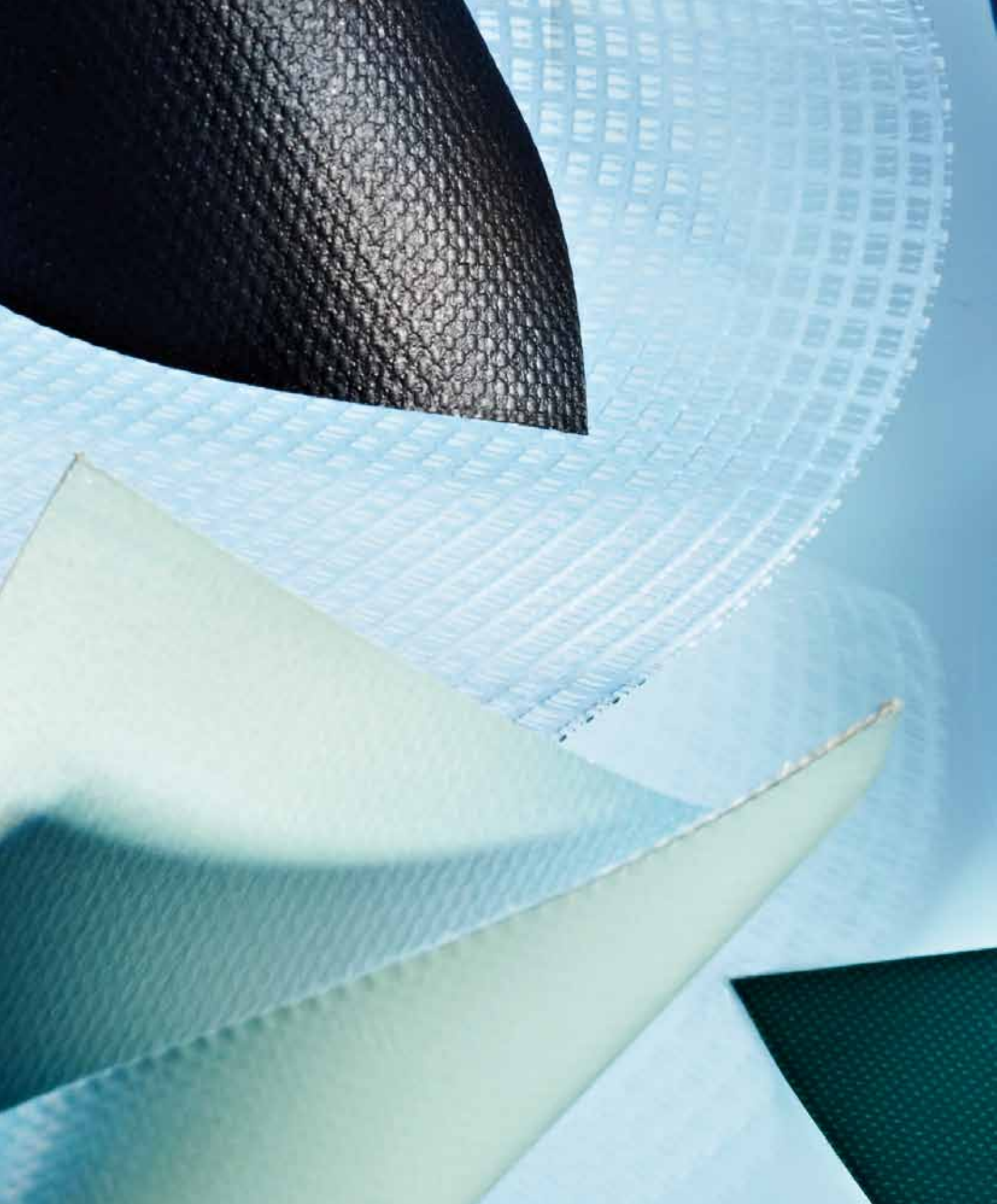
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Olbrich is your system supplier of intelligent machine and line concepts for the production of web products, such as wallpaper, floor coverings, film, foils and technical textiles. In the course of more than 60 years of experience in widely varying fields of application, our interdisciplinary team of specialist engineers has developed comprehensive technological expertise. This allows us to individually tailor each line to the specific requirements of your intended application – from the engineering through to the manufacturing process and final commissioning. By using our own pilot plant, we are also in a position to combine established technologies to develop new machine concepts or processes resulting in the development of innovative new products that create a competitive advantage.

Please feel free to contact us!

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