



Individual Solutions for the Production of High-Quality Self-Adhesive Film / Foil and Paper



OLBRICH

Create intelligent solutions.



Flexible Systems for Highest Demands.

➤ You want to know more:
www.olbrich.com/adhesivetapes

Film / Foil Industry for Adhesive Tape

Individual Solutions for the Production of High-Quality Self-Adhesive Film / Foil and Paper

Olbrich is one of the major suppliers of production lines for the finishing of films and papers – and for good reason – Olbrich lines set standards both in efficiency and with regard to the flexibility of applications.

Olbrich coating lines can quickly be changed over from one product to another. Thus a great variety of coating processes can be applied and down-times are minimised.

For the finishing of high-quality films and papers, production machinery of the highest technological standard is required. Olbrich offers customer-oriented technology, taking into account the complete production process, from the perspective of production conditions, environmental aspects and logistics.

From individual winders, coating and printing / lacquering units, drying and curing ovens right up to complex coating lines, we supply you with a customized, high quality and easily maintained production systems.

This is advanced technology for the film and paper industry.

Our Customers' Products

Whether it's coating with dispersions, with solvent systems, hot-melt or 100% (UV) systems, whether it's open, multi-layer or special-function coatings – we can supply the versatile technology to meet the varying requirements of our many different customers.

- Adhesive tapes
- Protective films
- Films for the packaging industry and the sanitary industry
- Primary material for labels
- Films for the photo-voltaic industry
- Composite films for the printing industry
- Films for the electrical industry, displays
- Films for the automotive industry
- Films for the construction industry and building technology
- Technical papers for insulation technology
- Inkjet papers
- Siliconised papers and films



From the concept stages of a great variety of coating, lacquering, laminating and drying processes via the design through to the assembly and commissioning Olbrich is an overall system supplier for machines and production lines for the film and paper finishing.

An extensive team of applications engineers, designers, electrical engineers and technicians accompanies the customer from the first draft up to the installation.

Olbrich is your single-source provider – from the in-house manufacture up to the assembly at our works.

On-site assembly and commissioning is also carried out by our experienced expert staff.

Of course, modern electro technology and automation with comprehensive process visualisation and the facility to export production data all form part of Olbrich's scope of supply.

During the commissioning we give comprehensive training. Our service department guarantees efficient spare parts sourcing as well as maintenance and repair services for all Olbrich machinery. This is how we ensure the long service-life quality of your production lines – wherever they may be throughout the world.

Line Concepts

- Coating- and laminating lines
- Coating- and laminating lines for hot melt systems
- Lines for clean room application
- Laboratory- and pilot plants



Film / Foil Industry for Adhesive Tape

Individual Solutions for the Production of High-Quality Self-Adhesive Film / Foil and Paper

Unwinders and Rewinders

for discontinuous operation. Flexible design to customers' requirements.

- Working width: 250 mm to 3.500 mm
- Speed (mech.): 1 m / min - 200 m / min
- Roll diameter: up to 1.500 mm
- Core holding: 3" und 6", cantilever or bilateral bearing arrangement
- Splicing device: Manual (butt-) splice, concept with material accumulator for continuous line operation

Turret Winder

for continuous line operation. With automatic roll change.

- Working width: 800 mm to 3.500 mm
- Speed (mech.): 50 m / min - 800 m / min
- Roll diameter: up to 1500 mm
- Core holding: 3" und 6", without spindle or with expansion shafts
- Splicing device: Dependent on the product requirements pneumatic or motorised hammer shears, circulating knife chain, rotary knife, feeding without wrapping (rewinder)

Special equipment: Orbital function for turret rewinder

- Accessories: Side adjustment (web edge control) residual length optimisation (unwinder) automatic loading and unloading

Contact and Circumferential Rewinder

for the winding of surface-sensitive and tension-sensitive films and papers, of foam films and composite materials. Machine concept to the customers' requirements.

- Working width: 300 mm to 3.500 mm
- Speed (mech.): 20 m / min - 500 m / min
- Roll lengths: From 10 m to 2.000 m, dependent on the material thickness
- Operation: With and without core if necessary, with automatic core feeding and roll end fixing with downstream roll packaging

- Splicing device: Dependent on the product requirements rotary crosscutting for continuous operation, vertical hammer shears, circulating knife chain, rotary knife, feeding without wrapping by roll cradle or feeding device (belts)
- Accessories: Automatic unloading of rolls

Rewinding, Inspection and Laminating Machines

with single-station unwinders and laminating and delaminating device, inspection section and roll winders (circumferential winders) with and without core, for fully-automatic operation.

Coating Machines

Multi-purpose coating technology by using different coating modules in one coating machine, employing OLBRICH cartridge technology.

- Working width: 300 mm to 3.500 mm
- Speed (mech.): 1 m / min - 800 m / min
- Coating agents: Dispersions, solvent systems hot melt and 100% (UV) systems
- Application weights: Dependent on the product requirements

- Coating processes: Gravure roller coating units – direct, indirect reverse gravure with pressure chamber doctor slot die coating, curtain coating stripe and pattern coating Mayerbar (rolling bar) furnishing roller application units, kiss coaters screen coating roll coaters, reverse roll coaters 5-roller application units comma bar (with deflection compensation "Mycrocoat")

- Accessories: Temperature controlled application rollers compound / adhesive feeding systems Clean room and explosion protection cabins Close-loop control between thickness measuring and coating unit



Drying Technology

Working width: 300 mm to 3.500 mm

Coating agents: dispersions, solvent systems

- Nozzle-type recirculating air drier with internal or external recirculation air ducts
Drier for clean room operation and/or to FDA standard
- Parallel lift bar via spindle lifting gears
- Optimum accessibility to the recirculating air ducts as well as to the heat exchanger
- Heat exchanger at the suction side of the air fan for optimum uniform temperature distribution
- Nozzle air outlet speed: up to 30 m / s,
Uniform distribution of temperature +/- 1° K
- Adjustable heat supply by Olbrich TP upper air nozzle
- If necessary, conditioned fresh air, upstream recirculating air filter
- Concepts for exhaust air heat recovery
- Available with low-friction rollers (< 10 g)

Designs:

- Upper and lower air drier if need be with separate temperature adjustment
- Recirculated air drier with external recirculating air ducts
- Olbrich CTS lower air nozzle and Olbrich TP upper air nozzle
- Floatation drier with special Olbrich floatation nozzle technology
- Clean room and GMP drier
- Infrared heating field drier, Plate drier
- Recirculating air cooling zones with external recirculating air ducts or in-/out operation

Heating of drier: thermal oil, steam, hot water
gas burner, electrical heating

Web transport: via low-friction rollers in the CTS nozzle
driven rollers (direct or indirect)
conveyor belt, screen conveyor, floatation drier

Additional equipment: Recirculating air moisture measuring and control
surface temperature measuring
solvent concentration measuring
design as per EN1539
integrated fire extinguisher system,
exhaust air treatment

Remoistening Unit

- Steam remoistening (single or double-sided) via sintered plate
- Remoistening with water via rotary moisteners or roller moisteners

Laminating Stations / Delaminating Stations

- With temperature controlled and cooled rollers, flexible design according to product requirements
- pressure rollers, rubber-covered and driven, adjustable laminating point, adjustable laminating pressure
- Driven and adjustable web transport rollers for low web tensions

Material Web Guiding and Web Tension Control

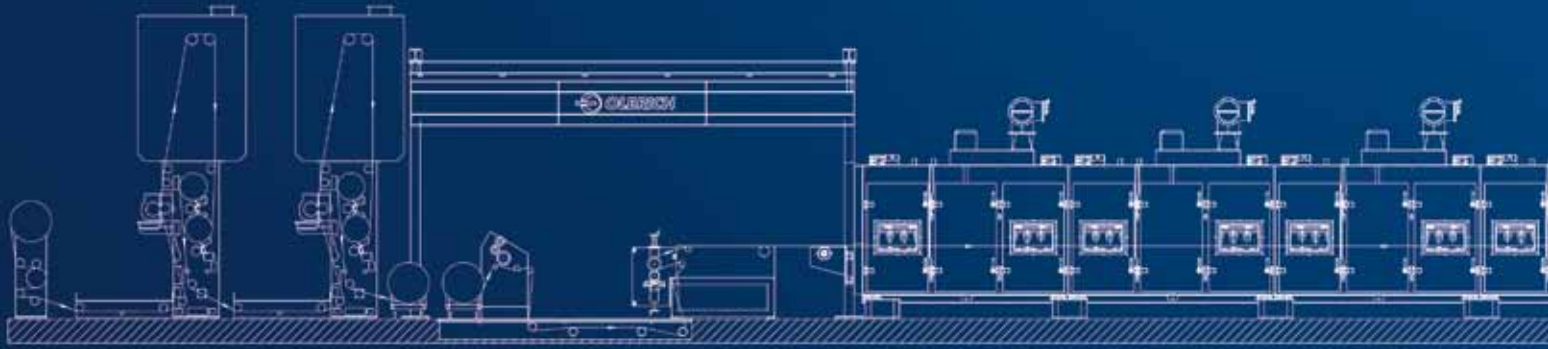
- High-quality drive technology and web tension measuring
- Use of pneumatic or motorised pendulum web tension control, high-resolution web tension measuring
- web transport by special coated vacuum tensioning rollers
- web transport via vacuum suction table with driven coated transport rollers

Drive and Automation Technology

- Design and layout of the drive and control technology
- Design and build of the electrical control cabinets giving optimum matching of mechanical and electrical engineering.
- Process automation with comprehensive process visualisation (recipe control, product data determination, evaluation and export)
- Modernisation of existing obsolete drive and control technology (line and single machine retrofit)

Service and Inspection through to Line and Machine Maintenance

- Systems for remote diagnosis and for online service with comprehensive process data recording and WLAN camera systems
- Organisation and execution of repair and maintenance services by the service department
- Service and maintenance contracts for sustainable maintained productivity



Pilot Plant

Realising Innovation – Our Pilot Plant!

➤ You want to know more: www.olbrich.com/pilotplant

Individual products for demanding applications require the highest level of machinery and production line technology. Our application, process and engineering technology offers you the platform to advance product development, to improve quality and to increase the productivity and efficiency of your machine technology. Olbrich's machines are individually tailored to our customers' specific requirements.

This is where our pilot plant comes in. If you want to develop new machine concepts, innovative processes and product ideas it is important for planned investments to be based on real-life production conditions.

In addition to a multi-purpose coating and laminating line (material width up to 550 mm) and a state-of-the-art laminating and embossing line (material width up to 1.000 mm), our experienced process engineers employ comprehensive computer-based simulations and process analysis to underpin the provision of practical advice.

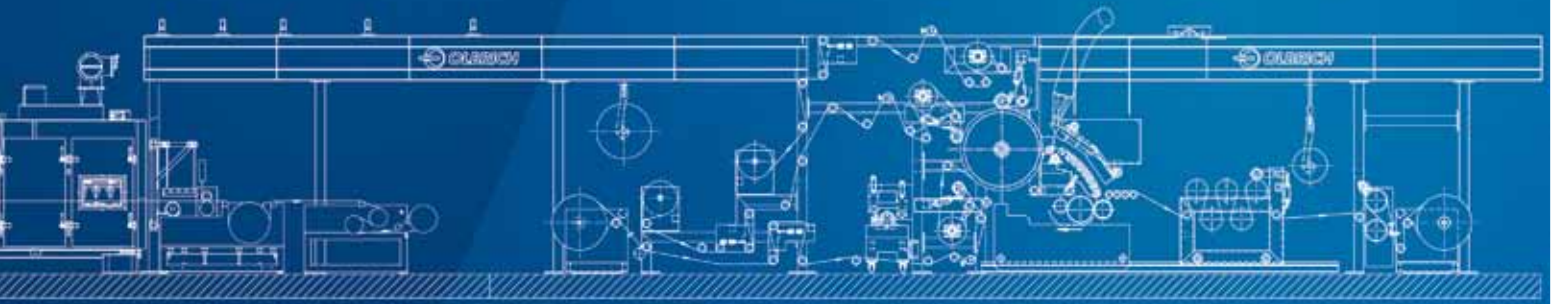
Come and see – you'll be impressed!

Technologies

- Coating processes for dispersions, solvent-containing compounds / adhesives and 100% systems
- High-efficiency driers for all coating compounds
- Thermal reactions and UV curing (cross-linking)
- Foaming processes
- IR systems
- Laminating
- Embossing

Production Lines

- Multifunctional coating and printing lines, working width: max. 550 mm
- Production-related laminating and embossing line, working width: max. 1.000 mm
- Various rewinding machines for different materials



Company

Inspiring Engineering – Convincing Technology!

➤ You want to know more: www.olbrich.com/company

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!

Flexible Systems for Highest Demands.

➤ You want to know more:
www.olbrich.com/adhesivetapes



OLBRICH GmbH
Teutonenstraße 2 - 10 | 46395 Bocholt | Germany
Tel.: +49 (0) 2871 . 283-0
Fax: +49 (0) 2871 . 283-189
info@olbrich.com | www.olbrich.com