



Superior Components for the Production of Sophisticated Decorative Film / Foil



Create intelligent solutions.

A collage of various decorative film and foil samples, including wood-grain patterns, a textured blue surface, and a smooth grey surface, arranged in an overlapping, geometric fashion.

Individuality for Maximum Quality.

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

Film / Foil Industry for
Decorating Application

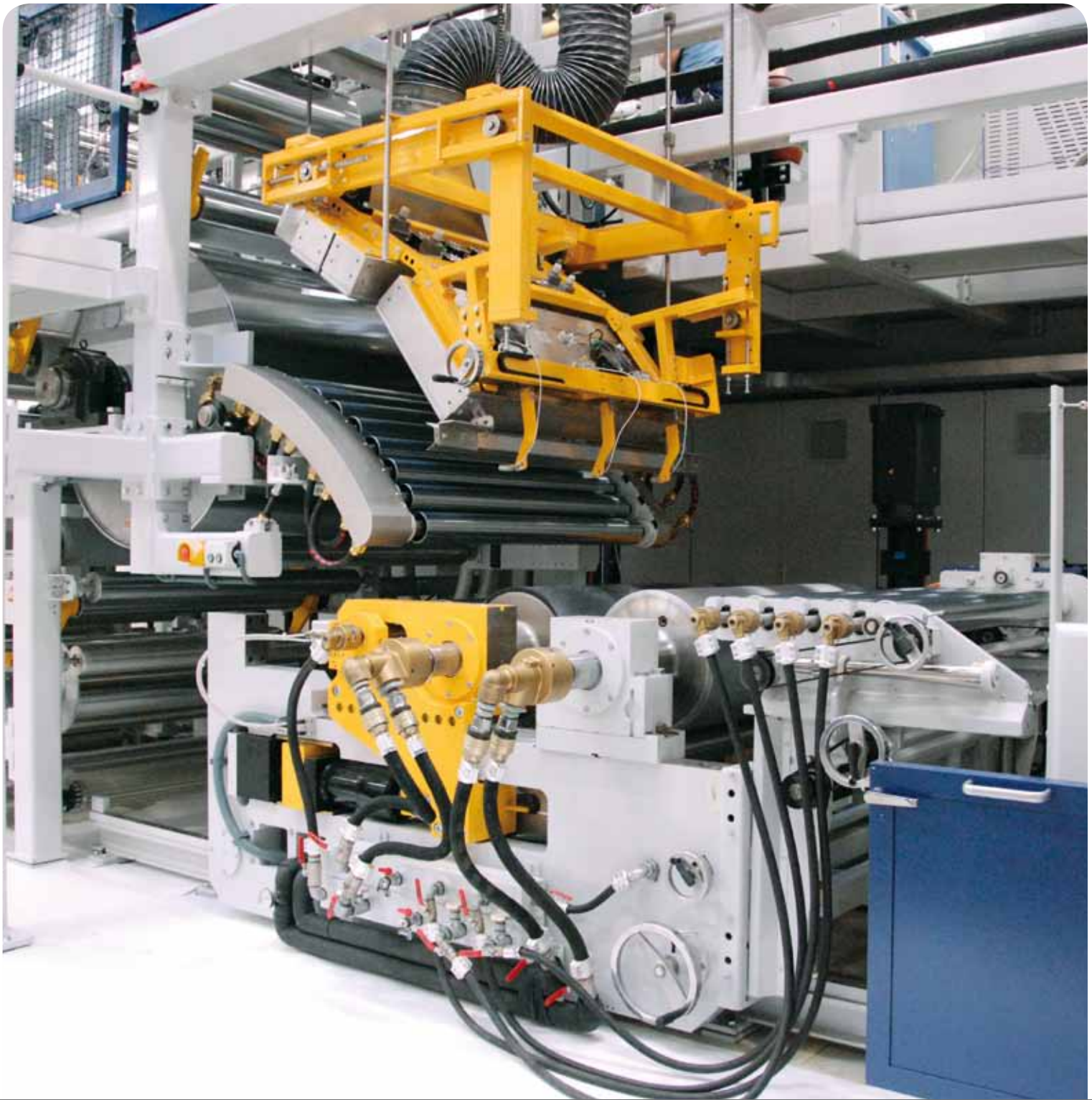
Superior Components for the Production of Sophisticated Decorative Film / Foil

Whether for the manufacture of products by means of a coating process - such as for instance artificial leather - or for finishing the surface of high-quality films or foils, Olbrich offers a wide range of precision production modules and processes for your production line.

For this purpose, technical consulting and trials at our pilot plant are of special importance. They enable us to supply machinery which optimises your overall production line concept - achieving the best product quality and maximum production efficiency.

Our Customers' Products

- Foam film, artificial leather for applications in the automotive industry
- Furniture foils made of PVC or other plastic material
- Finish foils for the furniture industry
- Film / foil for application in transportation
- Impregnated films and foils for various applications



Products for decorative applications require a very high quality standard. This is no coincidence, as they have a significant effect on the appearance, the haptics or “feel” and the functionality of a piece of furniture or automobile interior components – and this for a life cycle of many years.

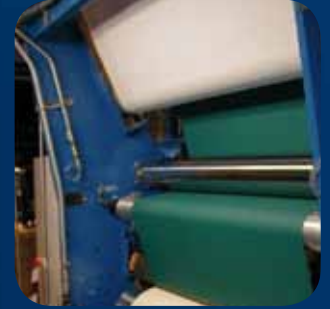
To meet these demands is necessary to develop the required properties in several production steps.

At each step, individual consideration is given to the needs of the future use, so a standard treatment of different products is more the exception than the rule.

Our production lines and machines fulfil this challenging task: not merely an all round system achieving ‘sufficient’ minimum performance, but exactly the right solution achieving maximum performance for laminating, embossing, printing & lacquering as well as for further processes aimed at the manufacture of your individual product.

Line Concepts

- Coating lines
- Laminating lines (hot laminating / adhesive laminating)
- Embossing lines
- Gravure printing lines
- Lacquering lines
- Impregnating lines
- Foaming lines



Coating

- For each purpose the appropriate application system
 - Knife coaters, direct and indirect coating, comma bar,
 - Roll coater, RRC, RC,
 - Pre-dosed systems such as cast unit, slot die, curtain coater,
 - Special solutions such as screen coating, dip coating
- Application weights from 10 – 1.500 g / m²
- Impregnating machines
- Viscosity from 500 – 100.000 mPas
- Coating under clean room conditions

Printing / Lacquering

- Offline-lines for speeds of up to more than 400 m / min
- Online-lines with non-stop design change "on the fly"
- Quick adjustment of the working width by means of impression rollers
- Alternative sleeve technology
- Servo-drive technology with individual digital drives for an optional assignment of the printing units for greatest flexibility
- For each purpose, the appropriate application system employing cassette technology such as roller coating, pressure chamber doctor, Mayer Bar
- Machines designed for direct and/or indirect application of lacquer
- Forward or reverse lacquering

Drying

- Flotation drier designed for high heat input
- Drier with special CTS lower air nozzles and TP upper air nozzles designed for avoiding creation of a boundary layer
- High precision of temperature and air speed to achieve perfect drying results
- Combined or separate upper/lower air supply
- Customer-specific concepts for the exhaust air treatment, including heat recovery
- Computer-assisted simulation of drying and heating processes
- Heating of the recirculated air by thermal oil, steel or natural gas
- Clean-room drier
- Physical cross-linking of various application compounds (UV, ESH)
- Remoistening lines

Laminating

- Line concepts for greatest efficiency in multi layer production
 - Hot laminating lines with central laminating roller
 - Hot laminating lines with single roll pass
 - Variable pre-heating
 - Double-, triple and multi-layer laminating
 - Cold laminating with adhesive systems
 - IR-heating systems
 - Delaminating equipment
- Precise temperature control for different film properties
- Precise control of roll nip forces
- Secure web guiding and web tension control for product-friendly web treatment



Embossing

- Horizontal or vertical web guiding
- Single-roller or multi-roller embossers as turret embossers
- Hot- and cold embossers
- Male and female embossing systems
- Embossing in register
- Embossing cassettes
- Inline- and offline concepts
- Quick "on-the-fly" design changes with no production interruption
- Optional operation mode with pressure and gap control

Winding Technology

- From winders with cantilever bearings to jumbo roll winders
- Single winders and dual single winders
- Semi- and fully-automatic turret winders
- Winders with orbital function for tension-sensitive material
- Contact winders
- Variable working widths
- Automated roll changing
- Rewinding machines and winders for small rolls
- Winding on cores or without cores

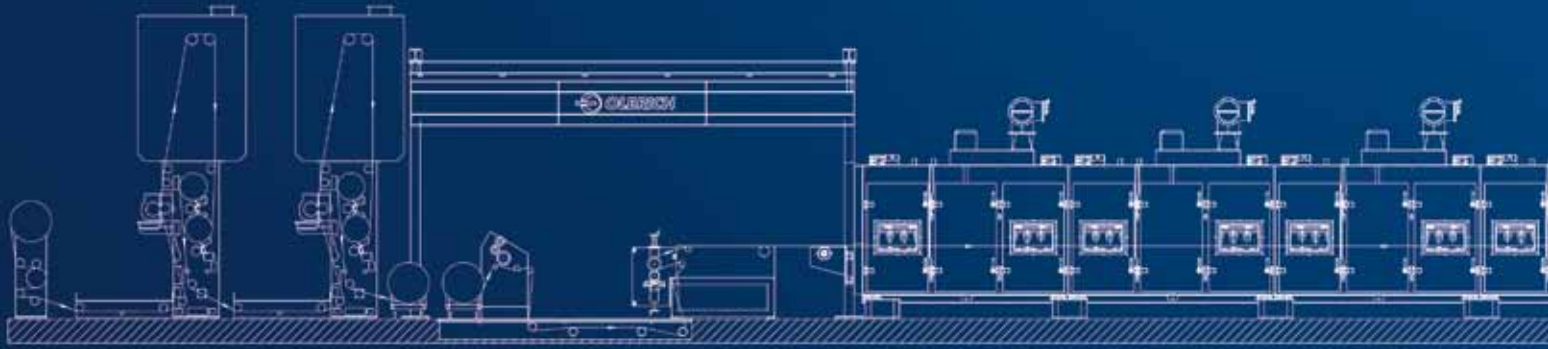
Drive and Control Technology

- All switch cabinets are designed and built by Olbrich, giving optimal match with production lines and machines
- Visualisation systems based on different software platforms
- With extended recipe management for quick product changes on demand
- Modernisation of existing, obsolete drive and control technology, even of third-party products

Our Range of Services

Comprehensive assistance and support in each project phase

- Pre-engineering and process engineering support during the elaboration of the line concept
- Tests on our pilot plant
- Project management
- Project-specific design
- Manufacture and pre-assembly at our works
- Assembly and commissioning, from the supervised assembly up to turn-key projects
- Complete after sales service
- Modernisation of existing lines



Pilot Plant

Making Innovation Available – Our Pilot Plant!

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

To ensure reliable, precise and trouble-free operation of your line from the start, each Olbrich line is individually tailored to the specific requirements for the production of decorative film or foil.

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.

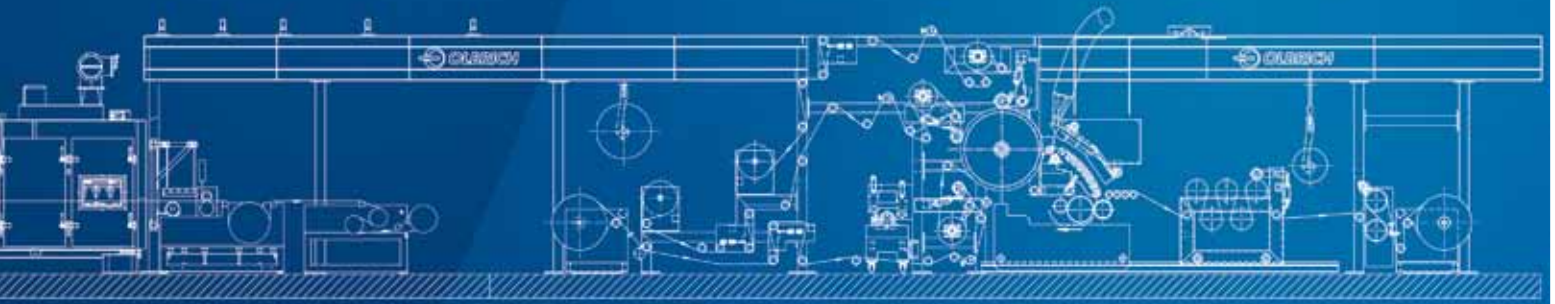
Come and see – you'll be impressed!

Technologies

- Coating processes (RRC, RC, coating machine and others) for PVC emulsions
- Lacquer and adhesive systems
- High-efficiency driers for all coating compounds, special nozzle systems material-friendly conveyor belt systems
- Gelling processes via gelling oven or gelling roller
- Printing processes gravure printing or screen printing
- Embossing technology including embossing in register
- Lacquering processes (direct and indirect) for water-based, solvent-based as well as 100 % lacquer systems
- UV-radiator systems for lacquer curing (cross-linking)
- Different IR-fields for temperature control
- Laminating, including multi-layer products
- Explosion-proof line, processing of solvents is possible

Pilot Lines

- Multifunctional coating and printing line working width: max. 550 mm
By modular technology more than 30 processes can be carried
This is ideal for developing new products and processes
- "Real-life" laminating and embossing production line working width: max. 1.000 mm
- Various rewinding machines for different materials
- Production of samples in original quality is possible



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 the 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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