

# - High productivity solutions



EXTRUSION COATING & LAMINATING

Protecting and enhancing

# Exceptional web handling capabilities



Technology for alternative  
**sustainable products**

**Exceptional configuration  
flexibility**

**Customized configurations  
for different industry segments**

The extrusion coating market encompasses a very wide scope of end-use market segments and applications, each with its own characteristics that determine the most suitable coating method.

Precise, reliable and consistent web tension control throughout the line from infeed to output is of paramount importance for the quality of the final product. BOBST web handling technology is world-renowned, benefiting from over 60 years know-how and experience in handling a very wide range of flexible, paper and paperboard substrates with different physical properties for its comprehensive range of different printing and converting equipment.

The modular architecture of each production line ally the reliability and cost-efficiency of standardization and the typical flexibility of custom-built machines whose final configuration may depend on

the end-product requirements. This requires a highly specialized know-how in terms of machine engineering and manufacturing as well as process technology.

To an outstanding flexibility in the choice of technology, BOBST extrusion coating and laminating lines combine optimum accessibility to all machine sections, making machine makeready and changeovers fast and safe for the operator.

In-house automation and advanced connectivity features enable access to production data from remote devices.

## Extrusion technologies

- > At a glance
- > Packaging market
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# Creating value

**BOBST innovations**  
are driven by customer  
and brand owner needs.

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## Sustainability

Growing demand in the market for recyclable, reusable and compostable packaging solutions, to work towards a circular economy.

## Barrier solutions

Growing requirement for packaging with high barrier to oxygen and water to extend shelf life. Unique combinations of vacuum and wet coatings for faster time-to-market.

## Expanding reach of added value coating

Barrier enhancement and high precision coating for high quality, high appeal products with extended shelf life to be used in a variety of industries including labels, medical, hygiene, cosmetics and industrial.

## Partnerships to deliver new innovative solutions

Working together to develop, test, refine and certify new products and solutions. Process experts and converters fulfill the desired end product and meet evolving market needs.

## Cost reduction

Specific BOBST technologies for higher performances, adhesion and barrier at a lower cost.

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## Safety

Food safety and brand protection are major requirements. Anti-counterfeiting and traceability are required across the entire supply chain.

## Customization, versioning, personalization

Packaging needs to reach all segments of society taking almost any shape and size across multiple job lengths across the globe.

## Color control and brand image

Color consistency and control across all substrates needs to be guaranteed for brands to look good across the globe.

## Sustainability

Packaging production needs to reduce its environmental carbon footprint – less waste across the entire supply chain. New and thinner substrates. Recycling and re-use are the new rules.

## Faster time-to-market

A growing number of products need to reach consumers faster. Product lifetime is shorter. From product design to the consumer experience, the supply chain has to be more agile.



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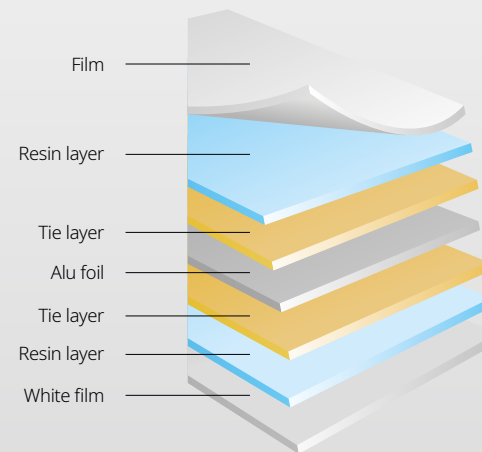
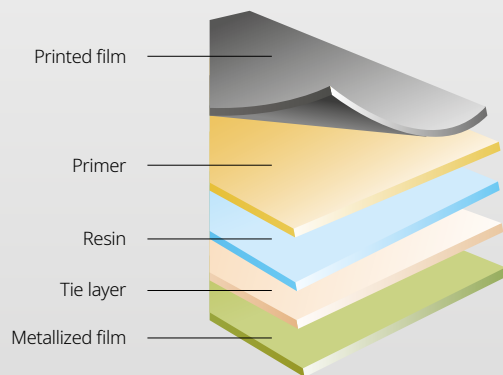
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# Precision in high speed coating & laminating

The machines' architecture and sturdy construction enables perfect web handling control at high speed from the unwinder to the rewinder. Combined with the use of high quality components, it produces structures with high bonding strength, thickness precision and superior optical quality. This enables to achieve an optimum balance between thickness consistency and high production volumes. Advanced process automation and the

smoothless integration of different equipment and functions limits to the minimum the operator's manual intervention preventing the occurrence of human errors that generate waste. BOBST lines for flexible packaging applications can be customized to fulfil the specific performance specifications and production requirements, by configuring mono-layer extrusion and co-extrusion for multi-layers or barrier lamination.

## Flexible packaging typical structures



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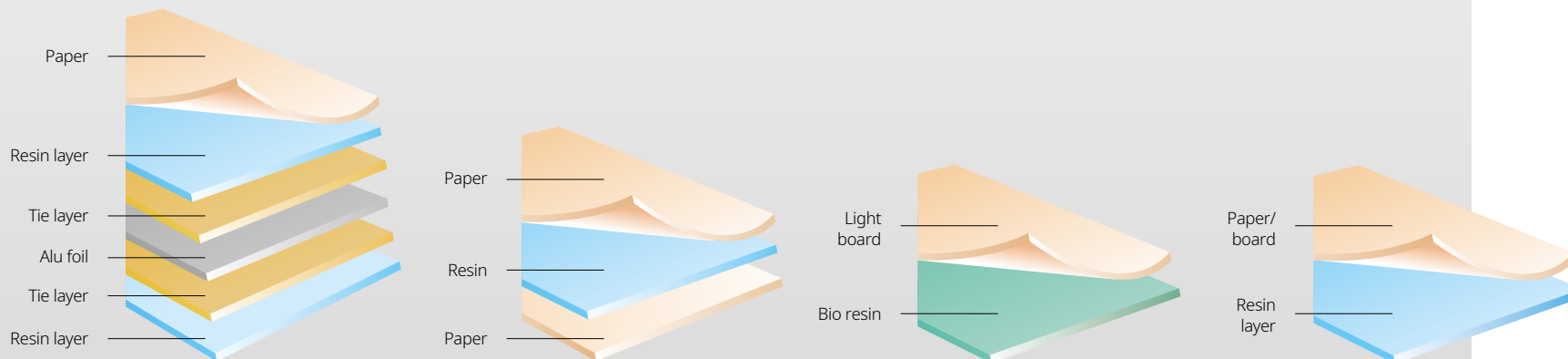
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# High performance & sustainability in coating & laminating

Extrusion coating laminates' sustainability and recyclability is a topical issue. BOBST is in the front line of industry collaborations with partners across the value chain, from resin production through to the printed and converted substrate. The extrusion coating and laminating lines web capabilities are constantly updated and can extrude both conventional resins and new biodegradable resins. This makes them ready to fulfil the growing

demands for sustainable packaging solutions and converting industry goals toward circular economy. BOBST lines for paper and board applications can be customized to fulfil the specific performance specifications and production requirements, with the fitting of additional functions. These include inline printing and unwinders for scrim used for extra strength substrates.

## Paper and board typical structures



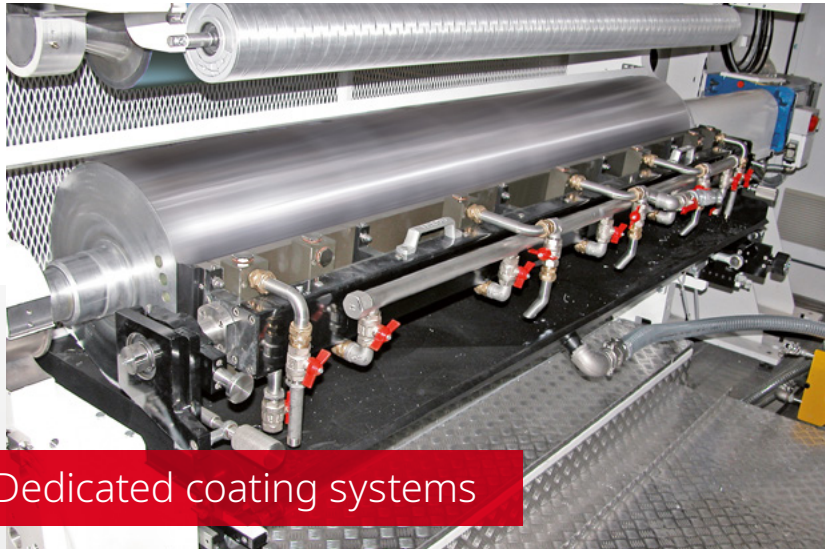
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Dedicated coating systems

Option of primer coating unit to achieve best results depending on line configuration/web width:

- gravure coating unit with onboard enclosed doctor blade
- trolley type gravure coating unit with onboard enclosed doctor blade
- Capability to coat water-based or solvent-based primer at high speed
- Dedicated solution to avoid foaming during operation with water-based primer
- Fast change of doctor blade
- Sleeve type pressure roller for quick job changes



Dedicated drying technologies

Option of technologies to achieve the best and most efficient drying depending on machine configuration and applications to be run on the line

- Vertical dryers with impingement technology nozzles
- Horizontal dryers with dual technology nozzles, impingement and floatation types
- Book-type opening of the hoods with optimum accessibility for thorough cleaning of nozzles and rolls
- On-board ventilation group, saving space on the transmission side
- Advanced energy efficiency
  - recirculation group sized to optimize power consumption
  - hood insulation preventing heat dispersion

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Extrusion laminating unit

- Three rolls bonding unit designed with an indirect pressure using pneumatic or hydraulic pistons
- Fixed contact point between chill roll and pressure roll. Vertical adjustment performed by the extrusion carriage, giving a wide variation of the air-gap
- High cooling capacity rolls for improved performance with lower power consumption for the chiller
- Particular attention has been paid to the accessibility and safety of the group
- Movable adjustable rolls allow quick dismantling of the chill roll and give the possibility to change the wrapping angle of the materials handled
- Chill and pressure roll with quick dismantling assembly for job variation and maintenance operations
- Teflon tape rings movable by motors with dedicated design to increase the working life of tapes



Extrusion

- High performances extruders in a wide range of screw size to meet the real requested output based on the production
- Manual or automatic die controlled by thickness measurement system
- Fast change of filters providing a very short stop time of the extruders
- Carriage with three motorized movements for a wide range regulation of the position of the die and better control of the extrusion parameters
- All the electrical equipment and the thermoregulation cabinet are located on board to save space on the floor and to reduce the cabling from the machine to the extruders
- Fully automatic heating/cooling control of all the thermoregulation zones

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VISION RX 400F

### High performance and flexibility

- Superb output quality
- Versatile and upgradeable
- Full control of operations



VISION RX 400FTD

### Product differentiation and faster time-to-market

- Outstanding quality & flexibility
- Process know-how from single supplier
- Sustainable and easy operation



MASTER RX 700F

### State-of-the-art performance

- Customizable and exceptional speed
- Connected and easy to operate
- Sustainable operation



MASTER RX 700FTD

### Increasing the product

- Unrivalled productivity with tandem configuration
- Easy and accurate operation
- Exceptional product quality



MASTER RX 600P

### Powerful and robust

- Exceptional quality
- Waste saving and easy operation
- Outstanding versatility for flexible materials applications



MASTER RX 600PTD

### Unparalleled product value with tandem configuration

- High application versatility
- Flexibility for fast time-to-market
- Exceptional automation and upgradability

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### Flexible packaging

Product types	Snack foods, condiment packs, food dry goods, toothpaste tubes, insulation backing, alu-foil	
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#### Typical process characteristics

Substrates	10-150 µm films, 5-50 µm alu, paper 40-120 gsm	
Extrusion capacity	up to 7 layers	
Standard web-widths	1300 - 2000 mm	51.8 - 78.7 in
Max working speed	800 m/min	2625 ft/min
Customized configuration	Available	

#### Inline processes

Primer coating	Available	
Lacquer coating	Available	
Color print	Available	
Thickness control	Available	
Dosing system	Available	
Flame/corona treater	Available	

### Paper and board

Product types	Detergent boxes, animal food boxes, drum liners, ream wrappers, composite cans, soap wrappers, insulation backing	
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#### Typical process characteristics

Substrates	Paper and board up to 500 gsm	
Extrusion capacity	up to 2000 kgh	
Standard web-widths	up to 2700 mm	106 in
Max working speed	600 m/min	1968 ft/min
Customized configuration	Available	

#### Inline processes

Primer coating	Available	
Lacquer coating	Available	
Color print	Available	
Thickness control	Available	
Dosing system	Available	
Flame/corona treater	Available	

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# Driving the industry transformation

Bobst Italia's Competence Center is one of BOBST's six facilities worldwide dedicated to web-fed printing and converting technologies. Each is a center of excellence and all work in synergy to benefit from the multi-disciplinary know-how and experience derived within the Group.

The Competence Center in San Giorgio Monferrato houses gravure printing, laminating equipment, high level coating technologies and an adjoining fully equipped laboratory.

In particular, the LEONARDO coating excellence line is a full production scale machine featuring over 30 different application methods and a modular drying concept with 4 different web-handling and drying technology systems. This allows to develop, test and enhance products and processes, providing real production results and cost analysis.

The adjacent laboratory is the chemistry and data analysis hub, where thorough examination of materials, solutions and processes takes place.



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# Maintaining excellence

Expert services for all your equipment.  
Improve your processes, boost your productivity and enhance your expertise with a complete range of services from BOBST.



## Maintain your Investment

- Scheduled maintenance with BOBST certified technicians
- Preventative intervention, maximizing machine uptime
- Optimum performance over the equipment lifetime

[> WATCH VIDEO](#)

## Approved parts and logistics

- BOBST Original and Certified parts, and consumables
- Quality assurance, and extended maintenance intervals
- Worldwide distribution, and full availability where and when you need it

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## Machine upgrades

- Additional features, configured for your machine
- Enhanced functionality, connectivity and capability
- Future-proofing your investment, maintaining competitive advantage

[> LEARN MORE](#)

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# Digital age manufacturing happening with BOBST Connect

BOBST Connect is an end-to-end, user-centric digital platform that enhances and increases your packaging productivity. It's designed to help you make the most of the data your machine generates, improving efficiency across your value chain.

As well as exceptional data insights, BOBST Connect helps to orchestrate and improve your whole production process, from your PDF to the finished product and quality report. It brings data and digital services together in one fully connected platform, with machine insights and expertise built in.

All of this is available to you as part of BOBST Connect Essential, the first subscription level that you receive when you purchase a new BOBST machine.



## Performance analysis

- Production insights, including interaction of OEE components
- Identify and eliminate performance gaps

## Accurate reporting

- Meaningful insights on OEE and downtime
- Accurately measure target speed and quality losses
- Trend analysis over time

## Progress indicator

- Highlights extensive production deviations
- Empowers timely interventions

## Remote assistance

- Priority access to technical specialists
- Video with Augmented Reality expert support based on real-time data
- Available 24/7 (optional)

## Shift management

- Optimize planning time
- Deliver overall resource efficiency

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