

Outstanding process flexibility & performance

COATING TECHNOLOGIES

Protecting and enhancing



Exceptional web handling capabilities



In-house technology
for all processes

Exceptional configuration flexibility

Customized configurations
for different industry segments

The 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 coating 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.

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

REQUEST CONSULTING

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves the right to make modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Creating value

BOBST innovations
are driven by customer
and brand owner needs.

[> READ MORE](#)

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.

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect



Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Creating value

BOBST innovations
are driven by customer
and brand owner needs.

[> READ MORE](#)

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.



Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

Print responsibly

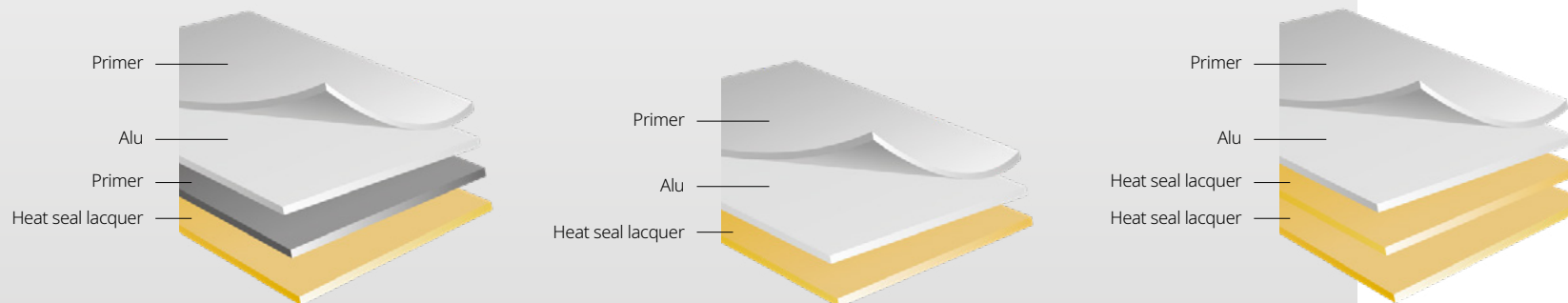
Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Versatile, high efficiency alu foil lacquering

Heat seal and protective lacquers are used to seal packaging and protect the content from light, oxygen, moisture and contaminants, prolonging its shelf life. Lacquering also preserves the organoleptic properties of food and prevents the deterioration of pharmaceutical products.

Coating lacquers structures can differ based on the application requirements that range from protection, insulation and enhancement functions to more complex structures. These include pigmented lacquers that require a perfectly homogeneous surface, as well as tear and scratch-resistant luxury packaging, and coffee capsules whose structure must withstand very high temperatures.

Alu foil lacquering typical structures



Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST
CONSULTING**

 Print responsibly

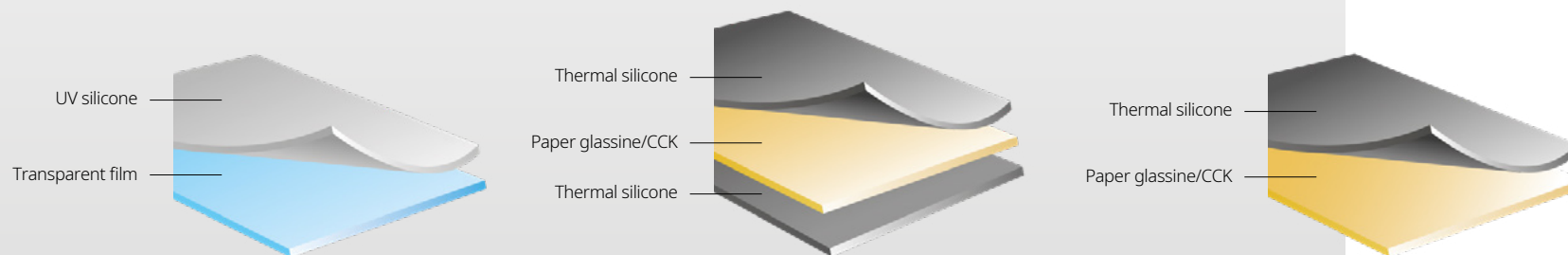
Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Precision, high speed **siliconizing**

Very accurate, thin coating for both thermal and UV silicone applications used in a variety of industry segments. Configuration flexibility and advanced capabilities in solving the process critical issues, such as the quality of coating and drying at high speed, paper remoisturizing, and precision of web handling.

Substrate and silicone type choice depends on application requirements, and the use of thermal or radiation curing technologies is according to the type of substrates. The versatile configurations of BOBST coating lines can handle all silicone types and perform multiple in-line processes.

Siliconizing typical structures



Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST
CONSULTING**

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Glossy, scratch free transfer metallizing

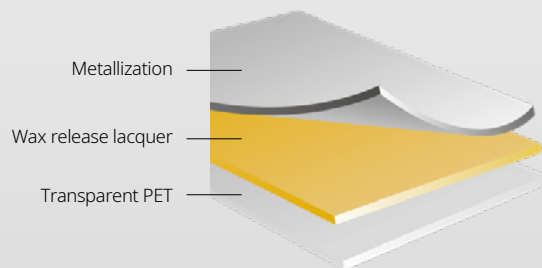
Coating solutions to create multi-layer structures with high optical results granting enhanced attractiveness and glossy finishing to packaging, as well some degree of barrier protection and improved mechanical resistance. Transfer metallizing is a multiple step process that requires the application of different technologies and in-depth know-how to master it and to deliver consistent high quality, flawless results.

Coating lacquers structures can differ based on the application requirement. They usually are complex products where a homogeneous, scratch-free surface is essential. Depending on the end product, they can involve the application of pigmented and holographic lacquers to create a luxury feel, improved shelf appeal or provide anti-counterfeiting or anti-tampering protection.

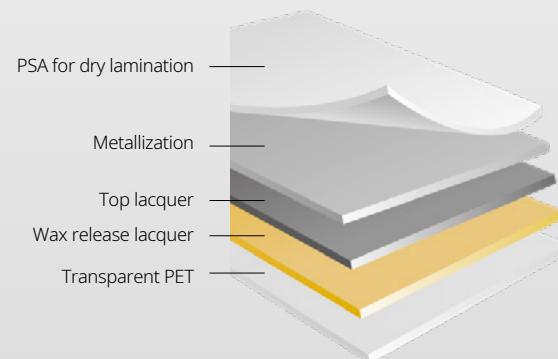
Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

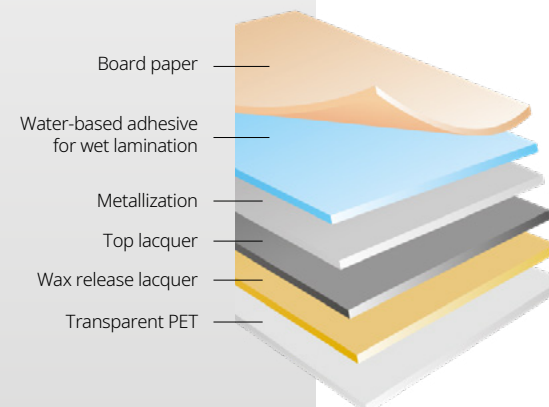
PET lacquering pre-metallizing



PSA coating post metallizing



Wet lamination transfer post-metallizing



**REQUEST
CONSULTING**

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Versatile and accurate PSA coating

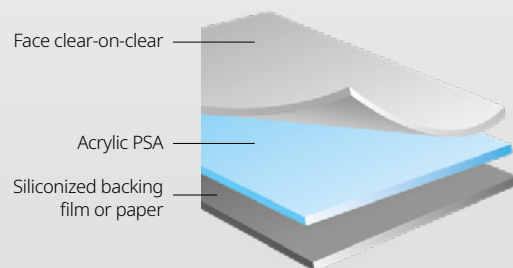
BOBST offers a comprehensive range of coating solutions for different families of pressure sensitive adhesive applications on various substrates. The variety of applications requires high technology and highly flexible configurations for multiple in-line processes. These includes backlog printing, coating of a primer and siliconizing. Additional applications are possible when combining PSA coating with transfer coating.

Coating of water-based or hot melt pressure sensitive adhesives can be permanent or removable depending on the different application requirements. This process addresses the requirements of a wide range of industries such as labels, industrial products and medical applications.

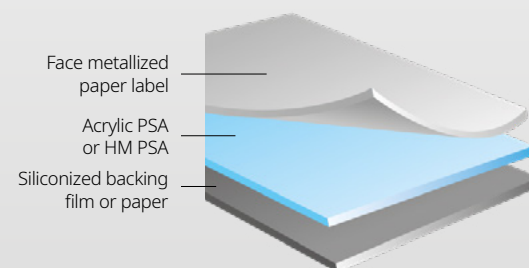
Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

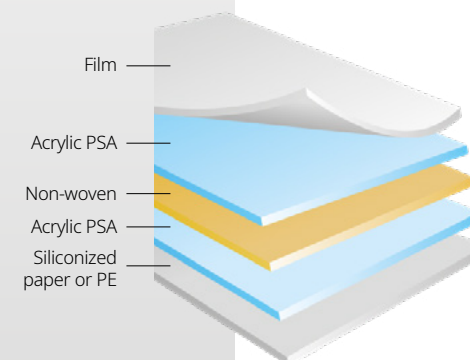
Clear-on-Clear label structure



Paper label structure



Non-woven structure



**REQUEST
CONSULTING**

 Print responsibly

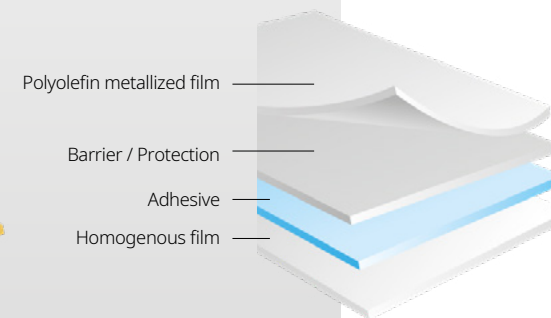
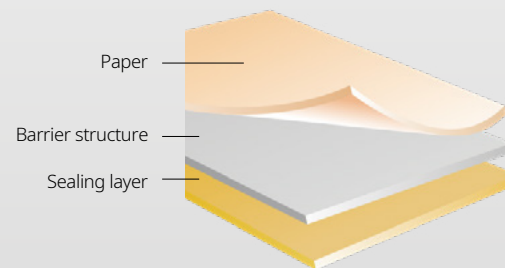
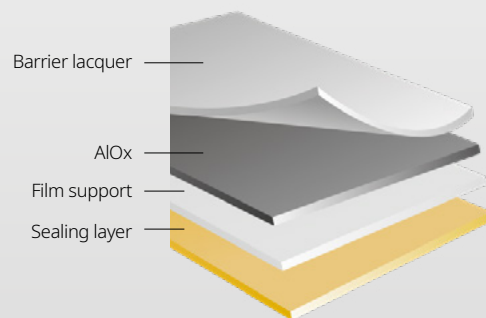
Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Performing and sustainable barrier coating

Various coating applications to enhance substrate functionalities such as barrier, sealability and increased resistance of substrates, including new eco-friendly material to follow printing and converting processes. BOBST's comprehensive range of scalable machines includes barrier coating solutions that meet the different customer requirements always delivering consistent high quality

coating. Coating lacquers structures can differ based on the applications' specific requirements. Barrier, AlOx protection and multi-layer coatings for critical substrates can be applied to achieve a wide range of barrier effects against light, oxygen, moisture and contaminants to prevent product deterioration and loss of food organoleptic qualities.

Barrier coatings typical structures



Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

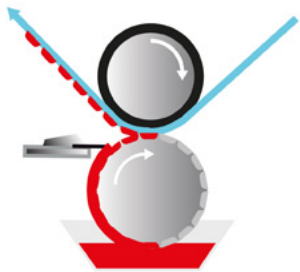
REQUEST
CONSULTING

Print responsibly

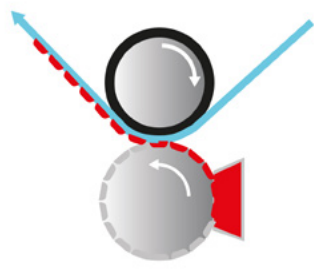
Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

BOBST currently offers three coating technologies - gravure, smooth roll and die - comprising ten coating systems enable to work with over 40 coating methods.

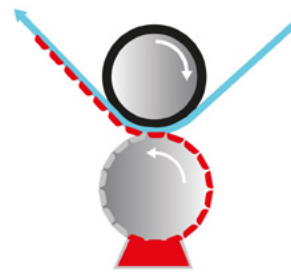
Gravure system direct coating



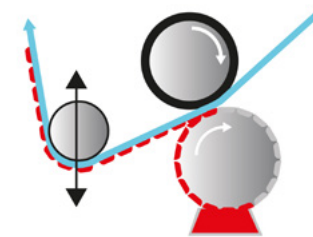
Oscillating blade reverse



3 o'clock closed chamber

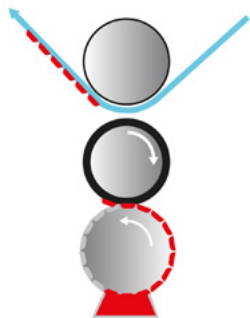


Pressurized chamber

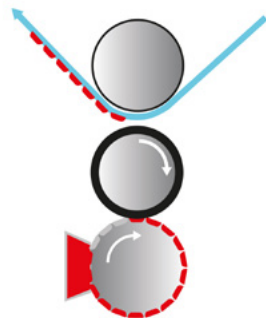


Kiss coating

Gravure system offset coating



Pressurized chamber
reverse




Closed chamber reverse

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

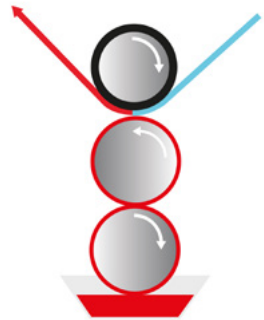
REQUEST CONSULTING

 Print responsibly

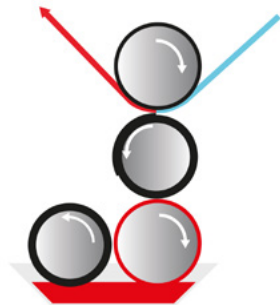
Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Examples of some available technologies; also possible in forward and reverse direction.

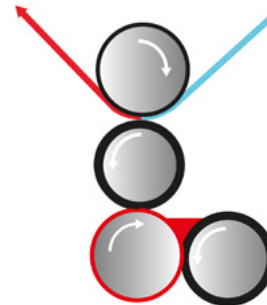
Smooth roll systems



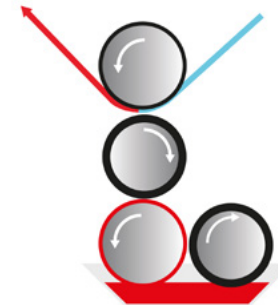
Semi flexo



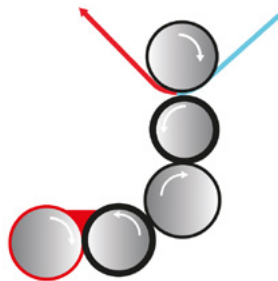
Flexo



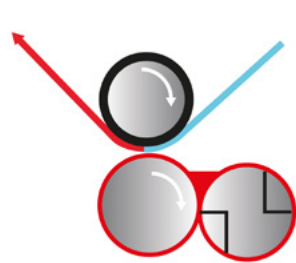
Flexo nip feed



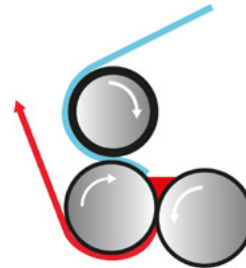
Flexo pan feed



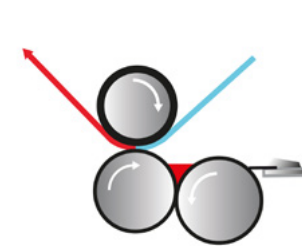
5 roll silicone



Comma coater



Dip coating




Reverse roll

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

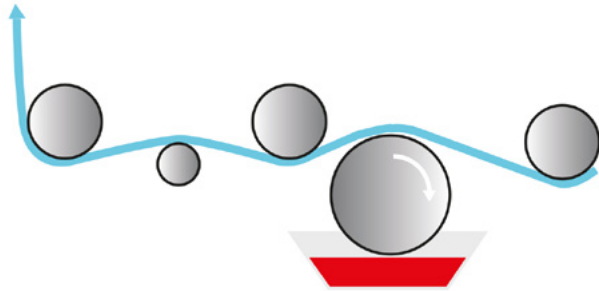
**REQUEST
CONSULTING**

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

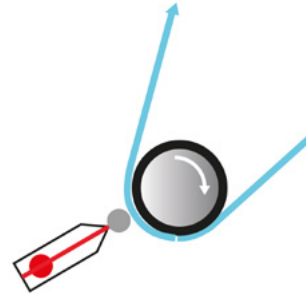
Examples of some available technologies; also possible in forward and reverse direction.

Smooth roll systems

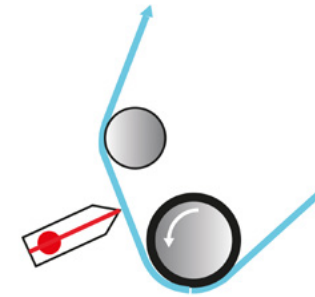


Mayer bar

Die system coating



Slot die



Slot die

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST
CONSULTING**

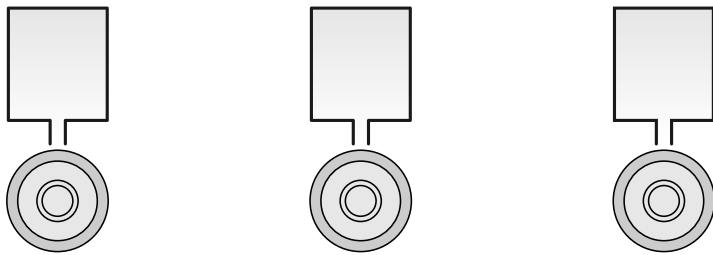
 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Examples of some available technologies; also possible in forward and reverse direction.

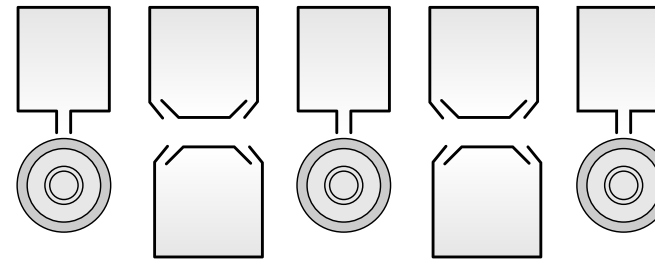
Multiple drying technologies are available to match specific product requirements and materials to be processed.

Impingement dryer



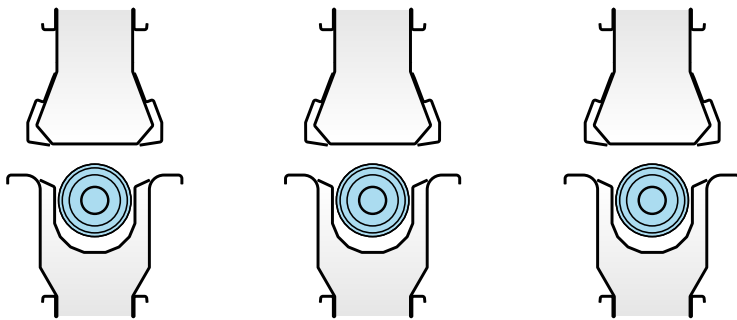
Unparalleled web stability for high thickness substrates. Up to 2.3 m web width*.

Hybrid dryer



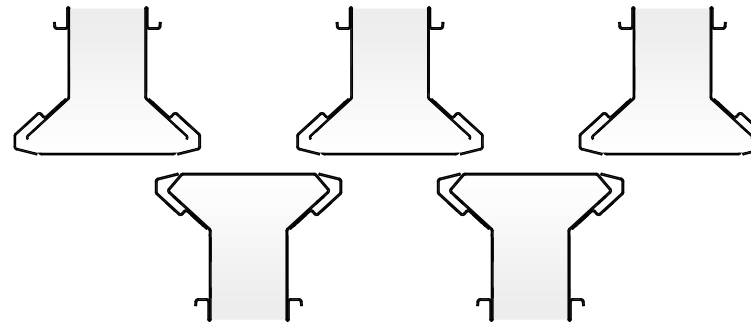
The dual solution of air and rollers enables superior drying capacities whilst maintaining excellent web stability. Up to 2.3 m web width*.

V-Dryer



High efficiency drying and optimal web handling of extremely sensitive and delicate materials with low tension requirements. Up to 2 m web width*.


Floatation dryer



Non-contact web control allows the maximum drying efficiency on all material types. Suitable for very large web widths of up to 2.6 m*.

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024



VISIONCOAT 800

Ultra-reliable precision

- Outstanding quality & flexibility
- Automated for maximum uptime
- Upgradeable technology



EXPERTCOAT 1000

Highly productive & flexible

- Highly configurable
- Flexible and connected
- Sustainable operation



MASTERCOAT 5000

High versatility

- High productivity & multiple applications
- Exceptional quality
- Connectivity and performance



MASTERCOAT 8000


Superior performance

- Customized flexibility & very high speed
- Unrivalled technology expertise
- Sustainable production and easy operation

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

REQUEST
CONSULTING

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

Alu-foil lacquering

Product types	Pharmaceuticals, cream, yoghurt, dessert lids, milk cappings, coffee capsules, cheese and butter wrappings, pet food, bottle necks and capsule foils, chocolate & confectionery, safety lids (e.g toothpaste)	
---------------	---	--

Typical process characteristics

Substrates	Soft and hard alu-foil 6-100 µm	
Lacquers	Solvent-based	
Standard web widths	800 - 1000 - 1300 mm	31.5 - 39.4 - 51 in
Max working speed	350 m/min	1150 ft/min

Siliconizing

Product types	Labels and labelstock, medical dressings, liners for medical patches, bakery products, hygiene products, cosmetics, industrial pre-pregs, technical tapes, anti-reflective and protective screens	
---------------	---	--

Typical process characteristics

Substrates	Paper 35-140 g/m ²	film 10-50 µm
Silicone types	Solventless, water-based, solvent-based	
Standard web widths	1300 – 1700 – 2100 mm	51 - 67 - 82.6 in
Working speed range	350 - 1000 m/min	1150 - 3281 ft/min

Transfer metallizing

Product types	Cosmetics, security and anti counterfeit, holograms, luxury packaging	
---------------	---	--

Typical process characteristics

Substrates	10-12 µm PET liner	
Lacquers	Solvent-based	
Adhesives	Solvent-based, water-based	
Standard web widths	1300 - 1700 mm	51 - 67 in
Working speed range	200 - 450 m/min	660 - 1312 ft/min

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST
CONSULTING**

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

PSA coating

Product types	Medical applications, clear-on-clear and paper labels, luxury packaging, cosmetics, technical tapes	
---------------	---	--

Typical process characteristics

Substrates	Paper 35-140 g/m ²	film 10-50 µm
Adhesives	Water-based and hot melt pressure sensitive adhesives	
Standard web widths	1300 - 1700 - 2100 m	51 - 67 - 82.6 in
Working speed range	80 - 600 m/min	262.5 - 1968 ft/min

Barrier coating

Product types	Fresh and dry food, snack foods, vacuum packed meat and fish, coffee capsules, pet food, cosmetics, pharmaceuticals	
---------------	---	--

Typical process characteristics

Substrates	Paper 30-80 g\m ²	film 10-50 µm
Coatings	Water-based, solvent-based	
Standard web widths	1300 - 1700 - 2500 mm	51 - 67 - 98.4 in
Working speed range	200 - 450 m/min	

Inline processes

Dry lamination
Wet lamination
PSA lamination
UV curing & inertization
Electron beam curing
Excimer laser
Steam humidifier
Nebulized water humidifier
Flexo printing unit

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST
CONSULTING**

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

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.



Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

REQUEST CONSULTING

 Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

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

[> LEARN MORE](#)

Machine upgrades

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

[> LEARN MORE](#)

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

Print responsibly

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024

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

Coating technologies

- > At a glance
- > Packaging market
- > Process know-how
- > Technologies
- > Machine portfolio
- > Specifications
- > Competence centre
- > Services
 - > General services
 - > BOBST Connect

**REQUEST SERVICE
INFORMATION**

 **Print responsibly**

Data is not binding.
Non-contractual pictures.
The manufacturer reserves
the right to make
modifications without notice.
© BOBST SA 2024
BUPC-COAT-EN032024