

Productivity and performance at their best



MULTI-TECHNOLOGY LAMINATION

MASTERLAM | TD 1000 | TX 1000

Leading sustainability

The **MASTERLAM 1000** is a flexible multi-technology platform for production of high performance flexible packaging. A very versatile duplex laminator, the **MASTERLAM 1000** can be supplied in very large web widths and handle a wider ranging variety of applications for industrial market segments such as energy and technical laminates. Very flexible and modular, it can be upgraded to the **MASTERLAM TD 1000** tandem configuration any time after installation. The **MASTERLAM TX 1000** triplex machine is an exceptionally productive and quality-driven solution for high volume productions of sophisticated three-layer laminated structures.

MASTERLAM 1000 TD 1000 | TX 1000

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High productivity in a variety of market segments

Exceptional quality

BOBST Connect Essential, data and connectivity, **as standard**



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Creating value

BOBST innovations
are driven by customer
and brand owner needs.

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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.

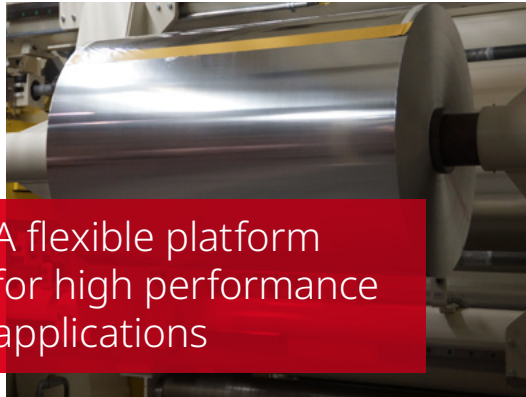


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A flexible platform for high performance applications

- Multi-trolley coating unit design for application of different process technologies: solvent-based and water-based dry or wet lamination, solventless lamination, in-register printing on pre-printed substrates
- Duplex, duplex tandem or triplex configuration. Upgradeable to tandem any time after the installation
- Dedicated configurations to provide the best fit to the applications to be run on the line: from flexible packaging through to technical laminates
- Larger web widths up to 1750mm and above upon request for industrial applications
- Modular drying tunnel configurable to deliver best quality results with especially heavy coating and technical specialties



Added-value advantages of tandem configuration

- Faster time-to-market from inline non-stop production of complex multi-layer structures and applications, such as triplex laminates or in-register printing of up to 2 colours on pre-printed material
- Enter new markets and widen the production range without investing in a separate triplex line
- The two machines can be used as two separate laminators and work inline for single pass processing only when required
- The full set of coating systems can be used on either machine



Advanced technology in triplex lamination

- Features and performance at the leading-edge of advanced laminating technology
- The most productive solution for converters producing high volumes per year of sophisticated three-layer laminates from a wide range of flexible material substrates and web combinations
- One pass processing delivers the highest output quality, more uptime, less waste and reduced overall production costs
- Full coating unit's enclosure on demand for 100% fumes capture - man inside or man outside

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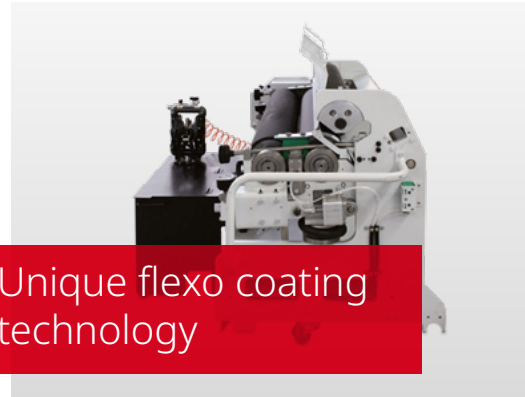
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Exceptional performance

- High speed printing up to 600 m/min
- Fully automatic bi-directional reel splice at maximum production speed. In-register applications back in register almost immediately
- Outstanding quality performance at high speed of exclusive flexo trolley coating technology
- Latest design of the gravure and solventless trolleys delivering coating uniformity and visual appeal with all applications
- Very fast tool-less job changeovers
- Very high machine uptime and faster time-to-market
- Optimum electrical energy balancing with Common DC-Bus



Unique flexo coating technology

- The highest quality application for coating solvent-based adhesives with more than 100 flexo trolleys in operation worldwide
- Lower coating weight with equivalent bond strength as compared to the rotogravure coating system
- Superior optical quality of the laminated structure
- Ideal for adhesive coating directly on thin aluminium foil. No wrinkles, no foil breakage
- 20% less adhesive required due to better adhesive distribution
- 65% less solvent used for dilution as the system can apply adhesive with high solid and low coating weight
- Reduced drying temperatures due to adhesive's lower solvent content



High efficiency drying tunnel

- Established and proven technology delivering the highest process efficiency
- High precision in drying process control
- Dual technology dryer combining impingement and floatation type nozzles
- Increased heat transfer and optimum air impact on both sides of the web, along the entire length
- Modular multiple-section drying tunnel for independently-regulated temperatures and air recycle modules
- Book-type opening up to 70° for easy accessibility
- Highly effective drying with water-based adhesive applications
- All the drying tunnel modules are thermally insulated

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Exceptional quality at high speed

- Very sensitive web handling of all substrates types, thicknesses and web combinations
- Unparalleled capabilities with aluminum foil substrates: no breaks, no wrinkles
- All trolley designs ensure consistent coating uniformity and a flawless visual appeal with all applications
- Registron® mark-to-mark reading system in real time for in-register applications achieves unparalleled reduction of any type of waste, as well as non-conformity of the final product
- Air exhaust from the bottom of the drying tunnel section grants excellent web stability
- Defect-free winding from double cooling roll that ensures uniform cooling and temperature stabilization



Operator-oriented

- Optimum accessibility to all machine sections
- Easy and quick removal of air nozzles
- Machine noise level down to 80 dB(A)
- Safer and healthier working environment from solutions that considerably reduce adhesive fumes near the coating and laminating area
- Advanced SPHERE Human Machine Interface (HMI) allows the operator to display and manage in real time the status of all significant process parameters
- HMI with common style and usability across all BOBST equipment



Connected and automated

- Exclusive automation features ensuring process repeatability and required productivity
- Creation of a digital twin of the produced reels
- Ethernet based connectivity to enable remote access to production and process data
- Programmed maintenance
- Downtime tracking and waste management
- Measuring of electrical energy consumption
- Range of BOBST Connected Services

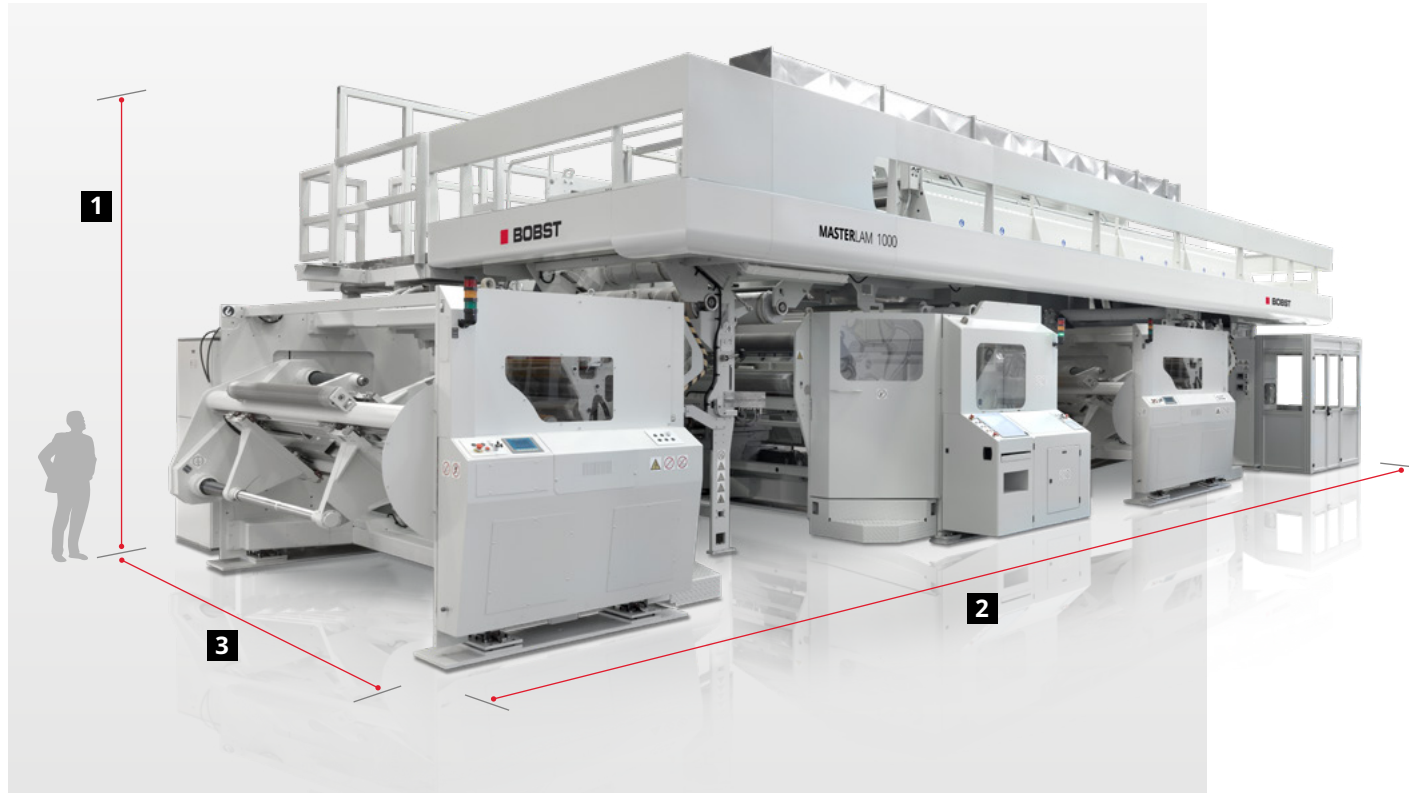
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1	MASTERLAM 1000	
5.7 m	18.7 ft*	
2	17.2 m	56.4 ft*
3	4.9 m	16 ft*

*Values may vary according to the configuration and accessories.

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1	MASTERLAM TD 1000	
	5.7 m	18.7 ft*
2	from 37 m onwards	
		121.4 ft*
3	4.9 m	
		16 ft*

*Values may vary according to the configuration and accessories.

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1	MASTERLAM TX 1000	
	5.7 m	18.7 ft*
2	from 30 m onwards	
		98.4 ft*
3	4.9 m	
		16 ft*

*Values may vary according to the configuration and accessories.

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Materials handled

Substrates	Film, laminates, paper, aluminium
Adhesives	Solvent-based, water-based, solventless

Capability

Web width	1350 - 1550 - 1750 mm	53 - 61 - 69 in
Max mechanical speed	up to 600 m/min	up to 1968 ft/min
Winders type		Shafted/shaftless
Winders reel diameter	1000 - 1300 mm	39 - 51 in
Heating system	Thermal oil, steam, electric, gas burner	

Inline processes

Duplex configuration

Dry lamination with solvent-based adhesives

Dry lamination with water-based adhesives

Solventless lamination

In register printing on pre-printed substrates

Tandem/Triplex configuration

Dry lamination + dry lamination with solvent-based adhesives

Dry lamination + dry lamination with water-based adhesives

Dry lamination + solventless lamination

Dry lamination + in register printing on pre-printed substrates

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Flexo trolley

BOBST enjoys a worldwide reputation for the quality of its flexo coating system which is proven as the highest quality application for coating solvent-based adhesives. The system provides a far superior optical quality of the laminated structure due to improved adhesive distribution, a lower coating weight with comparable bond strength, as well as a wide coating range without changing the coating cylinder.



Solventless trolley

The BOBST solventless trolley delivers a consistently repeatable process. The optimized process design significantly contributes to increasing the bonding and optical qualities of the laminated product. It also considerably decreases the amount of waste and machine downtime for much improved productivity.

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Rotogravure trolley

The trolley design benefits from BOBST's extensive know-how and experience with gravure printing lines to ensure consistent and uniform adhesive coating at any production speed, as well as ease of use. Furthermore, synergies have been exploited to provide full interchangeability of the pressure system and doctor blade holder between the machines BOBST and the gravure press models of the same web width. This achieves significant benefits in terms of machine maintenance and supply of spare parts for owners of both lines. As an option, the same rotogravure trolley can be used in either direct or indirect mode.



Printing with in-setter on pre-printed substrates

Registron® mark-to-mark reading of the longitudinal and lateral register on pre-printed substrates, avoiding non-conformity of finished reels. The system detects and rectifies defects in real time during in register applications. Fastest register recovery after only few meters of the new reel being printed, after the fully automatic splice at production speed. The system enable unprecedented savings in time, substrates, consumables and energy.

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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

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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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