

# LEADING INNOVATION

Web-fed performance programme



# TAKING PRIDE IN WHAT WE MAKE POSSIBLE

Excellence is thriving at BOBST. Differentiating our products and services through market-leading innovations is one of the pillars on which our success rests. Since first entering the flexible materials packaging arena in 1987, BOBST has brought into the Group some of the industry's most innovative, technology-driven, web-fed machine manufacturing companies. They have brought with them a heritage of achievements in each of their specialized sectors of the industry, adding to the BOBST legacy which encompasses 125 years of quality products and solid corporate values.

Our know-how, experience, dedication and commitment to our corporate values of trust, passion, performance and respect, have sustained the loyalty of generations of customers. It is what distinguishes BOBST in the marketplace and drives us towards always higher levels of performance. We continue to serve our customers by listening to them, understanding their needs and challenges, and by maintaining our focus on operational excellence and quality of service. We do this in the specialized segments of the industry that we serve and, in particular, by providing leading edge web-fed printing and converting equipment for the flexible materials and folding carton industries.

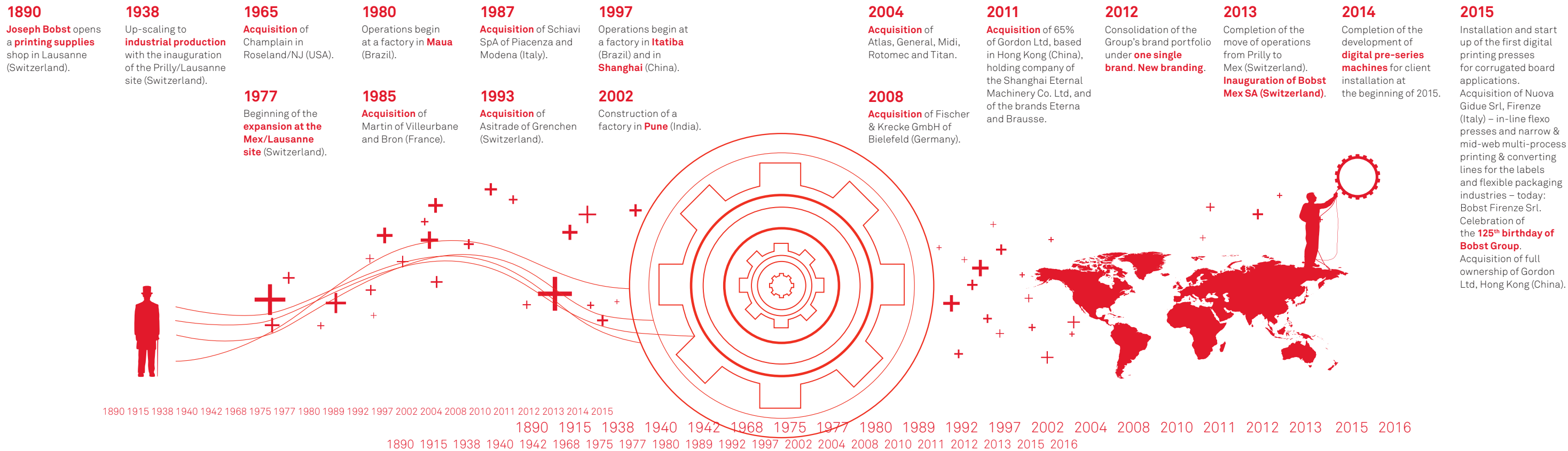
We are proud of our achievements. And we are proud that our customers are successful with us.

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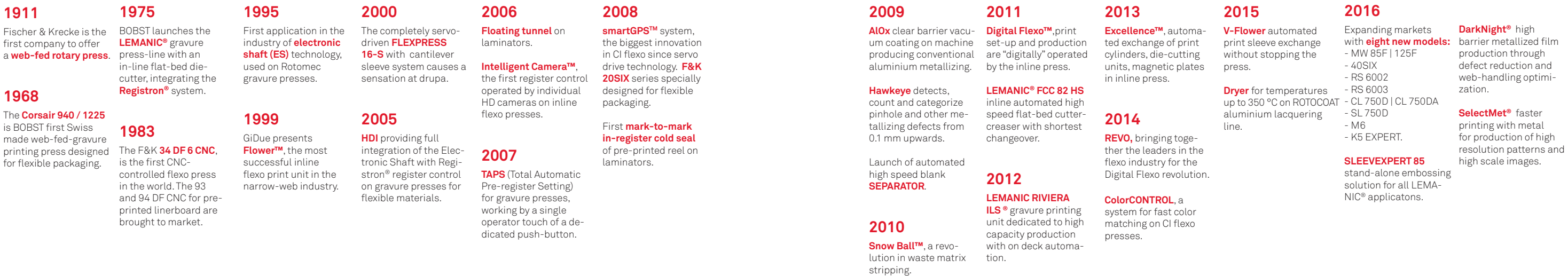
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# PIONEERING PACKAGING

## COMPANY MILESTONES



## INNOVATION MILESTONES WEB-FED EQUIPMENT





# ADDING VALUE THROUGH SPECIALIST EXPERTISE

Applications where BOBST has set the standard for state-of-the-art, efficient and ergonomic web-fed production lines



																
	Flexible packaging	Liquid packaging	Aluminium foil applications	Laminated tubes	Labels and labelstock	Folding carton	Board and multilayers	Wall coverings	Gift wrap	Transfer paper printing	Decorative applications	Security applications	Solar, batteries industrial	Linerboard pre-print	Non-woven, hygiene	Tobacco packaging
CI flexo printing	.	.	.	.	.	.	.		.					.	.	.
Inline flexo printing	.	.	.	.	.	.	.					.				.
Gravure printing	.	.	.	.	.	.	.	.	.	.	.	.		.		.
Laminating	.	.	.	.	.		.		.		.		.			.
Extrusion coating	.	.	.	.			.		.		.		.			.
Carton converting		.				.	.									.
Coating	.		.		.			.			.	.	.			.
Vacuum coating	.	.			.		.		.		.	.	.		.	.





# SECURING OUR CLIENTS' TECHNICAL AND ECONOMIC ADVANTAGE

All BOBST machinery stands for economic efficiency, dependability and superior output quality, thus making a significant contribution to the success of our clients' operations.

All new concepts are developed with the help of a strong existing know-how and a corporate context that fosters change and research into new solutions and innovative ideas. This approach produces efficiently manufactured and market-successful solutions.

Focused on being the first with the latest and most efficient technologies, we design our equipment for customers with their help. This is why we are able to ensure that you can drive the quality, performance and productivity you require into your operations.



# CHAMPIONING THE PARTNERSHIP VISION

It is because we develop a collaborative relationship with our customers that we are able to engineer and manufacture equipment that has gained the seal of excellence in quality and performance, and instils confidence in converters' purchasing decisions.

We do so by understanding your business objectives and production processes, having a flexible approach to your specific requirements as well as those of your clients, and focusing on solving issues if they arise.

Wherever you are in the world, through our many BOBST world-wide locations we can cater to your needs, in your language, and in line with your production methods.

Our commitment does not stop with the installation of our equipment, but continues over time to provide the kind of technology updates and services that allow you to always be at the forefront of market competitiveness.



# TURNING SUSTAINABLE PRACTICES INTO EARLY RETURN ON INVESTMENT

We take a strong environmental stance, and through our comprehensive scope of capabilities we are able to integrate a sustainability strategy into all our operations - from product development, to sourcing materials and manufacturing practices. This enables both we and our customers to garner some competitive edges through the primary benefit of cost savings from increased efficiencies and reduced waste.

Commitment to sustainability also inspires innovation; the global success of our web-fed printing and converting platforms is evidence of the effectiveness of the technical solutions we have adopted for energy saving and waste reduction - solutions that succeed in driving both industrial competitiveness and environmental responsibility.



# CI FLEXO PRINTING



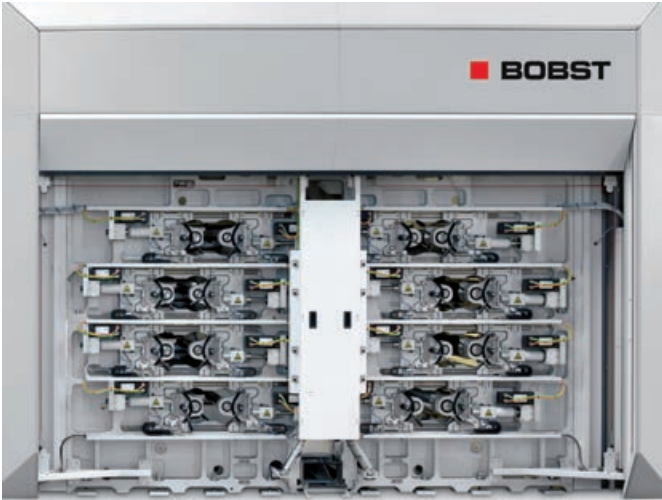
MW 85F

## MINIMUM WASTE, MAXIMUM QUALITY

The MW 85F and 125F models fulfill today's market requirements for CI flexo presses in the medium to lower wide-web range for quality of printing and the utmost flexibility in terms of job lengths and substrate types. While printing with an accuracy not seen before in CI flexo, the MW is capable of handling a mix of job lengths from ultra-short to long runs, yet always in the most cost-efficient way.

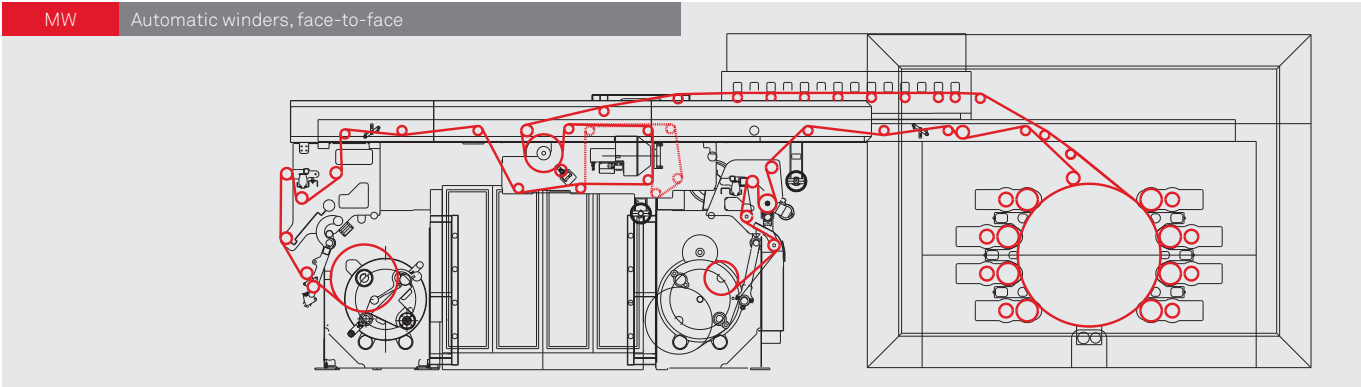
Its unique technical features in terms of mechanical rigidity and precision make the MW presses the ideal solution for Expanded Color Gamut printing, a process that requires ultimate process consistency to fully exploit the potential of the color gamut.

Thanks to its compact design, use of floor space is kept to a minimum. At the same time, it ensures user-friendly access to all print decks for the fastest sleeve and cylinder changes.



Print width			MW 85F	MW 125F
	mm	inches	8 colors	8 colors
	850	33.5	•	
	1250	49.2		•
Repeat range				
	mm	inches		
	270 - 800	10.6 - 31.5	•	
	370 - 800	14.5 - 31.5		•
Speed standard				
	m/min	ft/min		
	400	1312	•	•
Speed max				
	m/min	ft/min		
	500*	1640*	•	•

\* optional







20SIX S

# INTELLIGENT DESIGN INTELLIGENT ECONOMICS

Covering a wide range of flexible packaging market demands, the BOBST 20SIX is a combination of intelligent design and intelligent economics. Thanks to the unique anti-vibration design of the CI section, the 20SIX delivers superior print quality, even at high production speeds.

The compact design, in conjunction with user-friendly handling concepts and the optional smartGPS™ digital off-press impression and registration setting system, allow for the fastest change-overs in the industry.

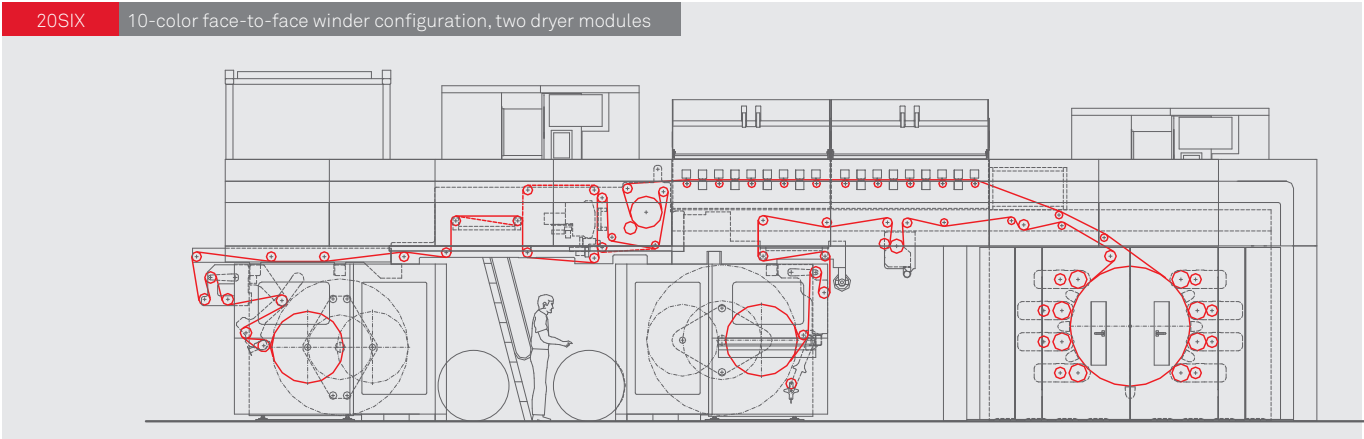
With speeds up to 600 m/min, print widths up to 1450 mm, and repeats up to 1200 mm, the 20SIX CS models provide increased productivity and flexibility.

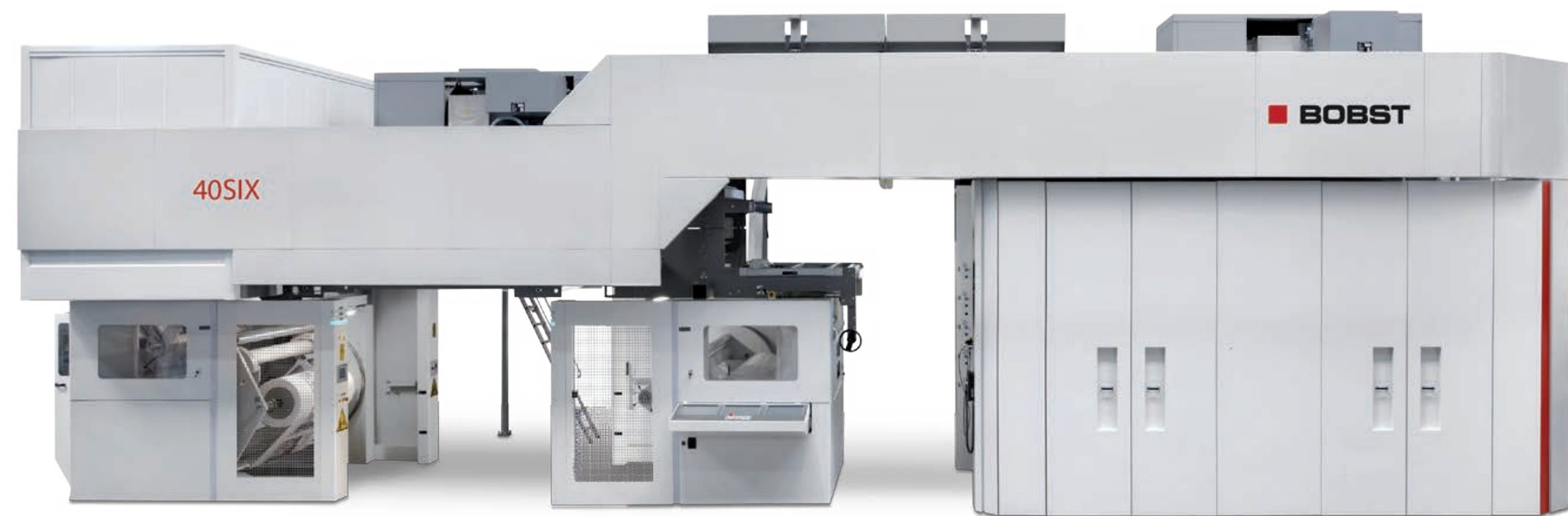
In addition, they can be customized to special production requirements with a number of options such as downstream flexo units, gravure printing units and turning bars for backside printing.



Print width	mm	inches	20SIX S		20SIX CS	
			8 colors	10 colors	8 colors	10 colors
	1050 - 1450	41 - 57	•	•	•	•
Repeat range	mm	inches				
	370 - 800	14.6 - 31.5			•	•
	370 - 1200	14.6 - 47.2			•	•
Speed standard	m/min	ft/min				
	400	1312	•	•	•	•
Speed max	m/min	ft/min				
	500*	1640*	•	•	•	•
	600*	1968*			•	•

\* optional





40SIX

# PREMIUM FLEXO FOR LARGE VOLUMES

Featuring the same technologies as the BOBST 20SIX, the extra wide 40SIX is designed to meet the demands of large volume and large format production. Being capable of printing on film, paper and non-wovens in a wide web tension range, the BOBST 40SIX is able to cater for all industries, including hygiene, food, pet food, detergent, bags and sacks.

Much emphasis has been placed on making all the major press functions easily accessible at all times. This leads to effective set-up, monitoring and maintenance, with minimum downtime.

**Dual nozzle technology for guaranteed drying**  
The bridge dryer features dual nozzle technology: impingement type jets blow the hot air on to the printed surface at high speed, while floating type jets supply the air from below, thereby increasing turbulence and supporting the web for safe feeding through the dryer.

**Automatic set-up**  
smartSET, a highly efficient system for semi-automatic on-press impression and registration set-up, considerably reduces waste and increases available production time. It is also available on the MW and 20SIX press lines.

**Low Energy Operation (LEO)**  
Specially developed for the 20SIX and 40SIX series, the system includes technologies and features for reduced consumption of energy, ink, and solvent, thereby considerably reducing the carbon footprint of the press.

Print width	mm	inches	40SIX	
			8 colors	10 colors
	1650 - 2250	65 – 88.6	•	•
Repeat range	mm	inches		
			520 - 1200	20.5 – 47.2
			•	•
Speed standard	m/min	ft/min		
			400	1312
			•	•
Speed max	m/min	ft/min		
			500*/600*/800*	1640*/1968*/2625*
			•	•

\* optional





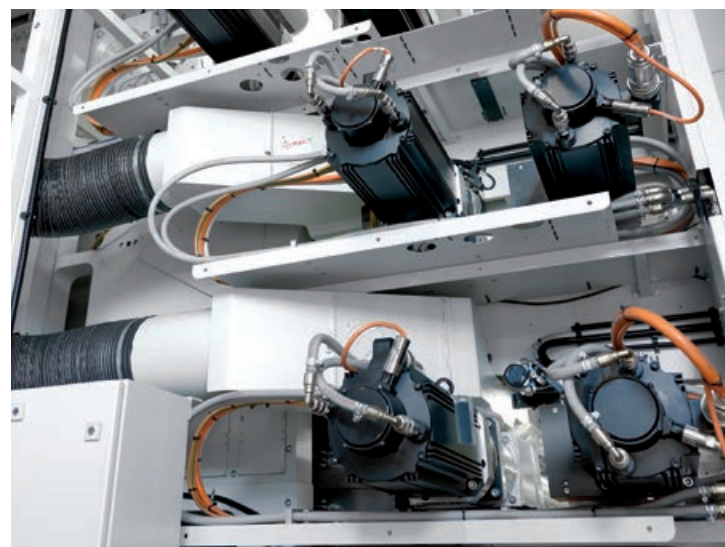
90SIX

## CUSTOMIZED EFFICIENCY FOR SPECIAL APPLICATIONS

The 90SIX CI flexo press is a highly customizable solution for applications that require super wide widths and super long repeats, e.g. for the production of beverage cartons or pre-printed linerboard.

Carbon fibre mandrels and specially developed auxiliary equipment, from manual to fully automatic, allow for the fastest changeovers, even with the largest repeats and the widest working widths.

The 90SIX press offers the advantage of being capable of high-quality printing on lower grammage papers, thereby considerably reducing substrate costs for converters.



			90SIX
Print width	mm	inches	8 colors
	1850 - 2800	73 - 110.2	•
Repeat range	mm	inches	
	750 - 2060	29.5 - 81.1	•
Speed standard	m/min	ft/min	
	500	1640	•
Speed max	m/min	ft/min	
	600*/750*	1968*/2460*	•

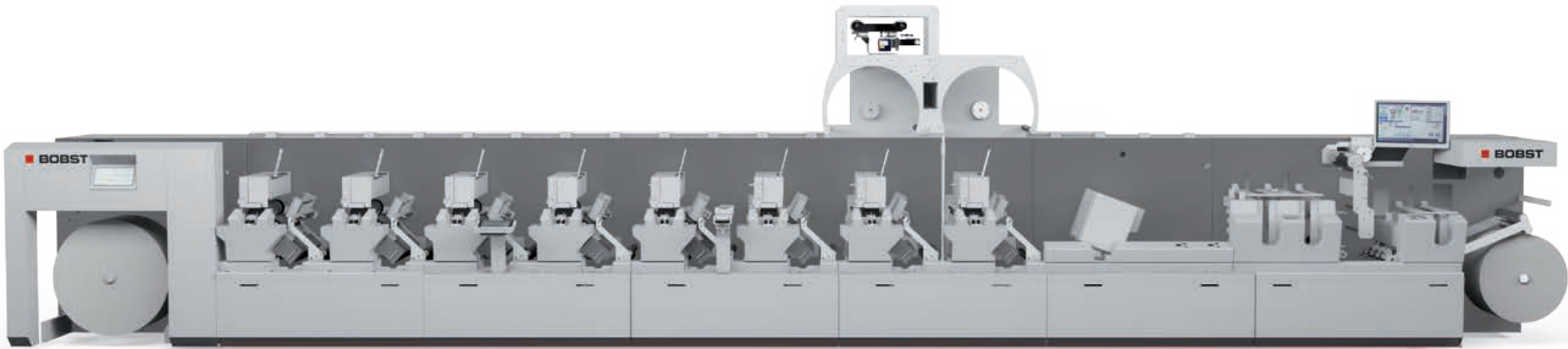
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### Fast changeovers, easy handling

The light-weight carbon fibre cylinders combine the advantages of the high rigidity required for quality printing with easy handling. The **ACCESS** system allows the user to perform job set-up during the production run.



# INLINE FLEXO PRINTING



M4

BOBST narrow- and mid-web inline flexo presses and inline multi-process printing & converting lines provide exclusive solutions and are the best value for quality and innovation. Modularity makes most lines in the range suitable to be configured for printing and converting substrates for applications serving the need of labels, flexible packaging and folding carton packaging manufacturers.

## SOLUTIONS FOR THE LABEL INDUSTRY

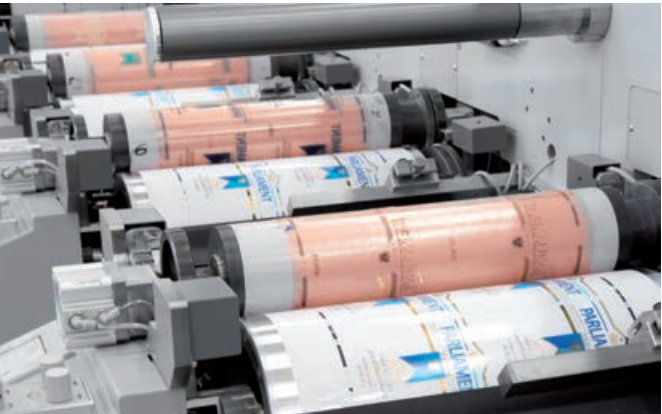
All lines in the range are very reliable and deliver profitable production and superior quality in the manufacture of labels for a wide spectrum of market applications. These include:

- Linerless labels
- PS labels
- Wet glue labels
- In-mold labels
- Wrap around labels
- Shrinkable sleeves
- Coupons.

The range of equipment is very wide, ranging from a fixed configuration dedicated press like the MX line, which affords consistent performance in quality and productivity for the production of pressure sensitive labels, through to multi-process printing and converting lines which can be equipped with an ample choice of options adding value to label production.

For the pressure sensitive label market segment, BOBST has developed an integrated mix of innovative technologies which allow converters to create new functional labels and break the production flow bottle-necks of die-cutting and waste stripping.

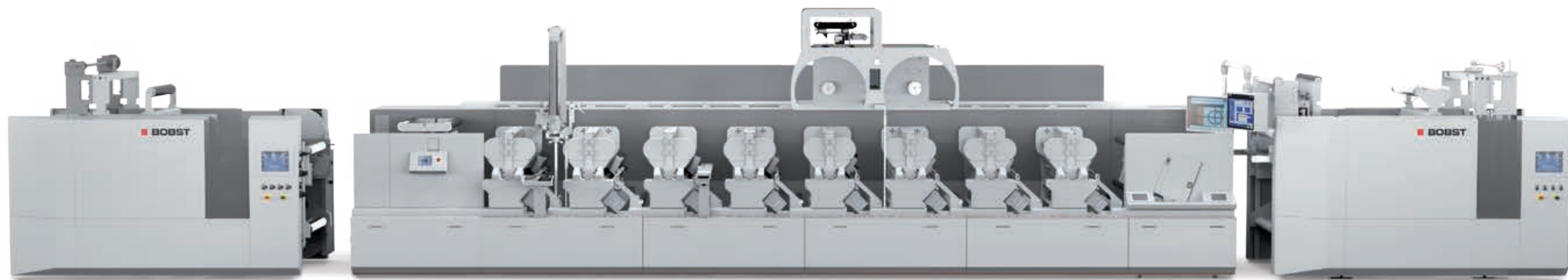
Product	Press model
PS labels	MX - M1 - M3 - M4 - M5 - M6 - M7
Wet glue labels	M1 - M3 - M4 - M5 - M6 - M7
In-mold labels	M3 - M4 - M5 - M6
Shrinkable sleeves and wrap-around	M3 - M4 - M5 - M6
Coupons - 2 layers with 2 webs	M1 - M3 - M4 - M5 - M6 - M7
Coupons - 3 layers with 3 webs	M3 - M4 - M5 - M6 - M7
Coupons - up to 5 layers with 1 web	M3 - M4 - M5 - M6 - M7



BOBST technologies for multiple web handling – multiple tension areas, multiple web unwinding and laminating, multiple web special paths, and special die-cutting - allow for a wide range of possible multi-layer label configurations. These include peel-and-reseal and peel-tear and stick coupon labels, multi-page peel and read booklet labels, and labels combining all methods.

Paper label technology provides for printing and sheeting on low gauge papers and for printing heavy solids with water-based inks. Specially developed anti-warping technologies allow for sheeting and stacking at high speeds.





M6

## SOLUTIONS FOR THE FLEXIBLE PACKAGING INDUSTRY

This range of narrow- and mid-web production lines are the perfect solutions for flexible packaging printing, easily producing a wide range of jobs, from micro run to long run production. Alongside the more conventional printing technologies and ink types, the use of UV flexo provides the most productive workflow, with total food safety.

This is encompassed in a combination of Digital Flexo for integrated automation and a new V-Flower print unit for changing flexo print sleeves on-the-fly.

BOBST Digital Flexo is a unique technology and part of the BOBST Digital Automation™ programme. The Digital Flexo process manages press operation to provide the highest print quality and production flexibility at the lowest cost of ownership.

Another automation exclusive to BOBST inline UV flexo presses is UVTrack™. This certified system measures the UV dose and tracks the safety of every printed meter of substrate, delivering compliance with even the strictest food safety legislations in flexible packaging applications.

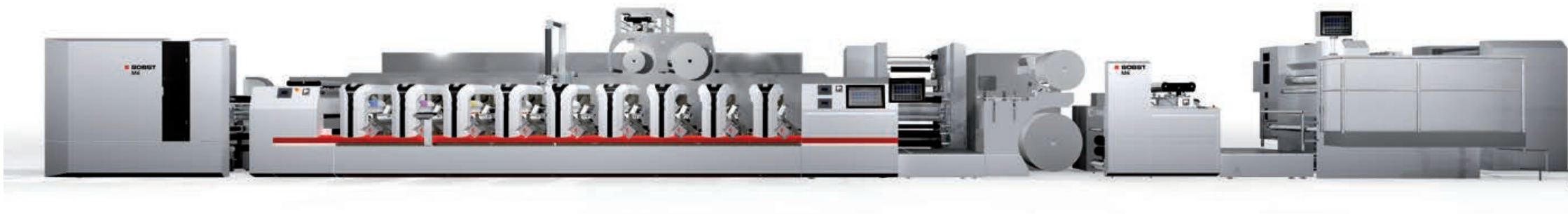
Product

Flexible packaging

Press model

M3 - M4 - M5 - M6 - M8





M6

## SOLUTIONS FOR THE CARTON INDUSTRY

BOBST multi-process technology allows for the all-in-one-pass multi process production of added value general folding cartons. Most lines in the narrow- and mid-web inline flexo press range can handle carton substrates up to 350 gsm. The M9 lines process carton substrates up to 550 gsm. All provide for reel-to-sheet and reel-to-reel delivery. Cartons produced on the lines can be converted on BOBST die-cutting and folding & gluing equipment.

Multiprocess technologies are operated by Digital Automation™ technology. The system coordinates and integrates multiple printing heads and processes to achieve the fastest set-ups and multi-process quality consistency. The most complex carton box formats – multicolor, multi-process – are in production in minutes.

The inline sheeter with high-pile stacker allows users to benefit from Digital Flexo advantages (print quality, flexibility, digital control, quality consistency, cost efficiency) and then use existing die-cutting and converting equipment without any additional investment costs. The productivity and cost efficiency of the M6 on folding cartons is higher than any printing press available today.

Product	Press model
Cartons (up to 350 gsm)	M4 - M5 - M6 - M8 - M9
Cartons (up to 600 gsm)	M8 - M9
Lottery tickets	M5 - M6 - M8 - M9



## DIGITAL AUTOMATION™

The Digital Automation Project is a revolution in engineering and in the way a label and packaging press operates. It considers all the possible operations and makes them fully digitally checked, adjusted and controlled.

Benefits of DIGITAL AUTOMATION™  
For every job change:

20 M OF WASTE  
1 MIN OF TIME  
HALVED OPERATING  
COSTS

Product	Benefit	Press model
<b>Digital Flexo 3.1</b>	Dynamic control of print pressures and register	M3 - M4 - M5 - M6 - M7 - M8 - M9
<b>Digital Flexo 4.0</b>	Closed loop control with PDF comparison	M3 - M4 - M6 - M8
<b>DigiGap 3.0™</b>	Automatic die-cutting anvil position setting	M3 - M4 - M5 - M6 - M7 - M9
<b>Excellence™</b>		
– <b>ExcelPrint™</b>	Automatic exchange of print cylinders, without stopping the press	
– <b>ExcelDie™</b>	Automatic die-cutting exchange between two die-cutting sections	
– <b>ExcelCut™</b>	Automatic flexible die exchange (with Metronome™)	



# EQUIPMENT OVERVIEW

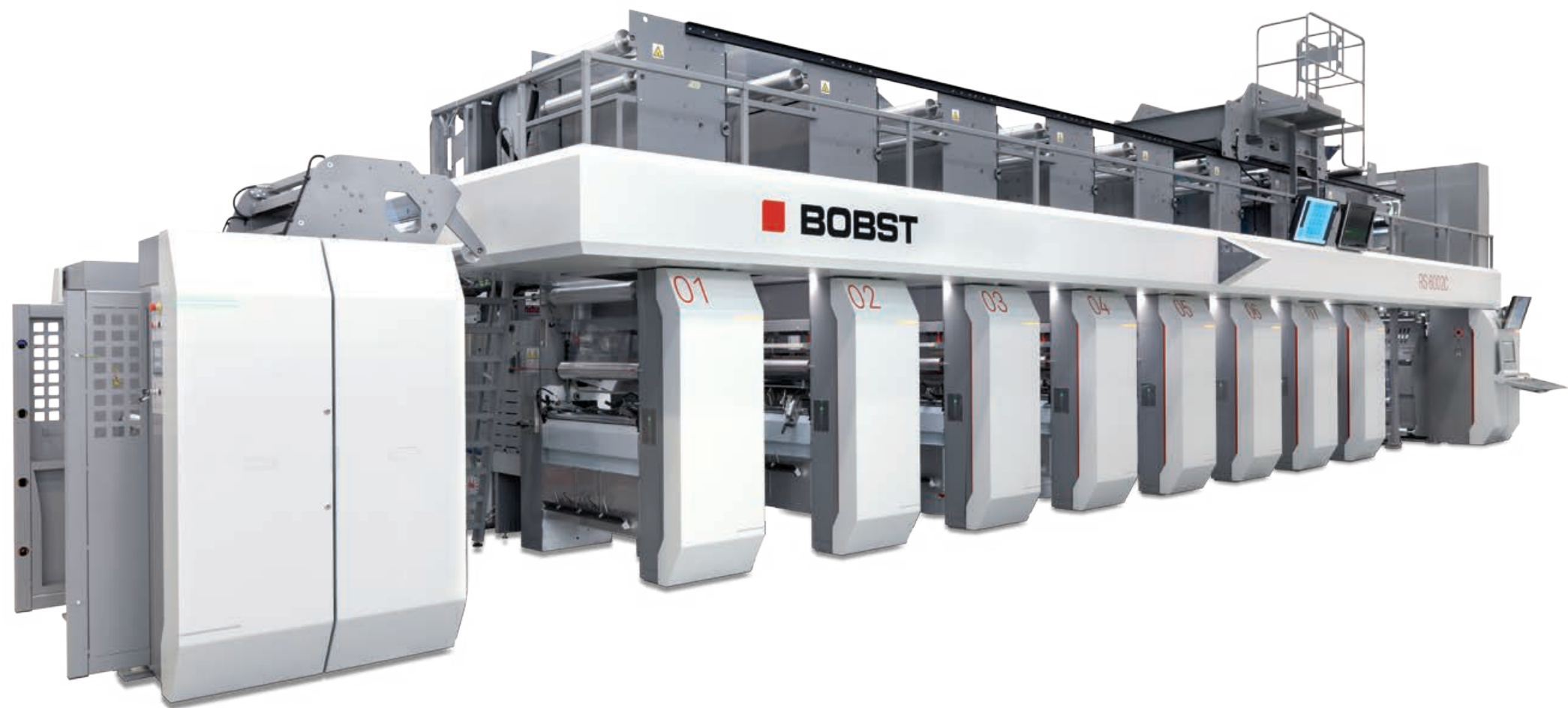
BOBST narrow- and mid-web inline flexo presses and inline multi-process printing & converting lines for labels, flexible packaging and folding carton feature:

- Servo driven rewind shafts
- Touch screen panel on each print unit
- Main touch screen with PC operated HMI
- Remote technical service over the Internet.



Model	Substrates	Drive	360° Pre-register automatic register	Max print units	Dies	IR dryers	UV on chilled drum	IR on chilled drum	Delam Relam	Cold foil	Rail	Flexo cylinder sleeve	Offset	Gravure	Silk screen Easy Fit 12-18 in width 370 or 430 mm	Silk screen New RSI 12-25 in width 370 or 430 mm	Hot foil	Inkjet	Coupons (number of layers)	Metronome DigiGap Easy Bambi	Digital Flexo	Excellence ExcelPrint ExcelDie ExcelCut	Web width	
																							mm	in
Mx	PS labels, paper	HB belt		8	1				1K	•					•								370	14.5
Mx2	PS labels, paper	HP belt		8	2				1K	•					•								370	14.5
M1	PS labels, paper	HP line shaft		10	1-2-3	•	•		2K	•	•				•		•	•	2-3	DigiGap only			370	14.5
																							430	17
																							530	21
M3	From 20 µ BOPP to 300 gsm car- ton (PS labels, paper, unsupport- ed film, light carton)	Full servo	•	10+	2-3	•	•	•	2K	•	•			•		•	•	•	2-3-4-5	•	•		370	14.5
																							430	17
																							530	21
M4L Labels	PS labels, paper, light carton	Servo	•	10+	2-3	•	•	•	2K	•	•			•		•	•	•	2-3-4-5	•	•	•	370	14.5
																							430	17
																							530	21
M4 Labels & film	PS labels, paper, unsupported film, alu foil, light carton, lami- tubes	Servo	•	10+	2-3	•	•	•	2K	•	•			•		•	•	•	2-3-4-5	•	•	•	370	14.5
																							430	17
																							530	21
M5	Unlimited	Full servo	•	10+	3	•	•	•	3K	•	•	•	•	•		•	•	•	2-3-4-5	•	•	•	370	14.5
																							430	17
																							530	21
M6	Unlimited	Full servo	•	10+	3	•	•	•	3K	•	•	•	•	•		•			2-3-4-5	•	•	•	430	17
																							530	21
																							670	26
M7	PS labels, paper, light carton	Full servo	•	10+	3	•	•	•	3K	•	•		•	•		•	•	•	2-3-4-5	•	•		370	14.5
																							430	17
M8	Film, light and heavy carton	Full servo	•	10+		•	•	•		•	•	•	•	•		•			2-3-4-5	•	•		670	26
																							850	33.5
M9	PS labels, paper, light and heavy carton	Full servo	•	10+	3	•	•	•	3K	•	•	•	•	•		•	•	•	2-3-4-5	•	•		530	21

# GRAVURE PRINTING



RS 6002

## THE GATEWAY TO PREMIUM GRAVURE PRINTING

The RS 6002 is a shaftless gravure printing solution which benefits both machine productivity and environmental sustainability.

The press handles, just as efficiently, short and long run production of flexible packaging and other flexible material applications thanks to its fast and easy press make-ready and changeovers.

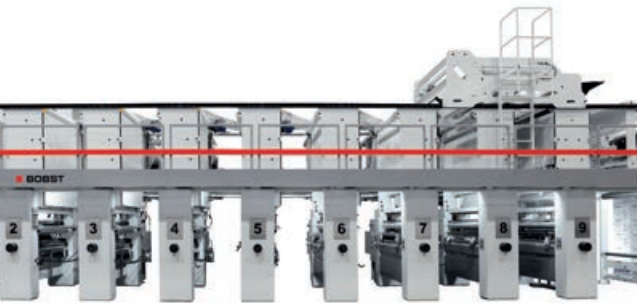
Excellent print quality is afforded by the integration of Electronic Shaft technology with BOBST Registon® register control. Furthermore, the RS 6002 also includes as standard the unique TAPS system for automatic pre-register setting, which works at the touch of a button.

**Dedicated inking system**

Consistency and quality of ink metering is crucial to quality of printing. There are a number of different factors that impact on inking performance, and determine the quality of printing. These range from production speed through to the use of market-specific inks.

With the aim of providing customers with the perfect fit for their production requirements, BOBST presses provide the option of different inking systems. Alongside the HSM (High Speed Meter) roller, the new MPI (Multi Purpose Inking) system optimizes the process across a broad variety of ink-types. It is available in two different configurations.

Web width	mm	inches	RS 5002	RS 6002
	1200	47.2	•	
	700 - 1300	27.6 - 51		•
Printing cylinder repeat	mm	inches		
	380 - 940	15 - 37	•	•
Max speed	m/min	ft/min		
	350	1150	•	•



RS 5002

The RS 5002 shaftless gravure printing press brings together all the advantages of BOBST leading-edge technology with market-related technical solutions, which make the press ideal for delivering high quality printing that meets the specific needs of the Indian and Southeast Asian market.





RS 6003C HS

# A PLATFORM FOR LEADING-EDGE SOLUTIONS

The RS 6003 platform represents BOBST's way forward in the development of the next generation of gravure printing solutions. The machines based on the RS 6003 platform fulfill a broad spectrum of application requirements by offering dedicated configurations.

Available for shaftless (RS 6003C HS) or shafted (RS 6003S and RS 6003S HS) cylinders and with varying levels of automation, the different models can have dedicated ventilation systems, be with or without on-board washing, and also provide the option of MPI Multi Purpose Inking alongside the HSM High Speed Meter roller system.

Owing to the platform's modularity, the models of the RS 6003 range can easily be configured into a multifunctional production line by easily combining added-value complementary operations, such as lamination or in-register cold seal coating, in line with printing.

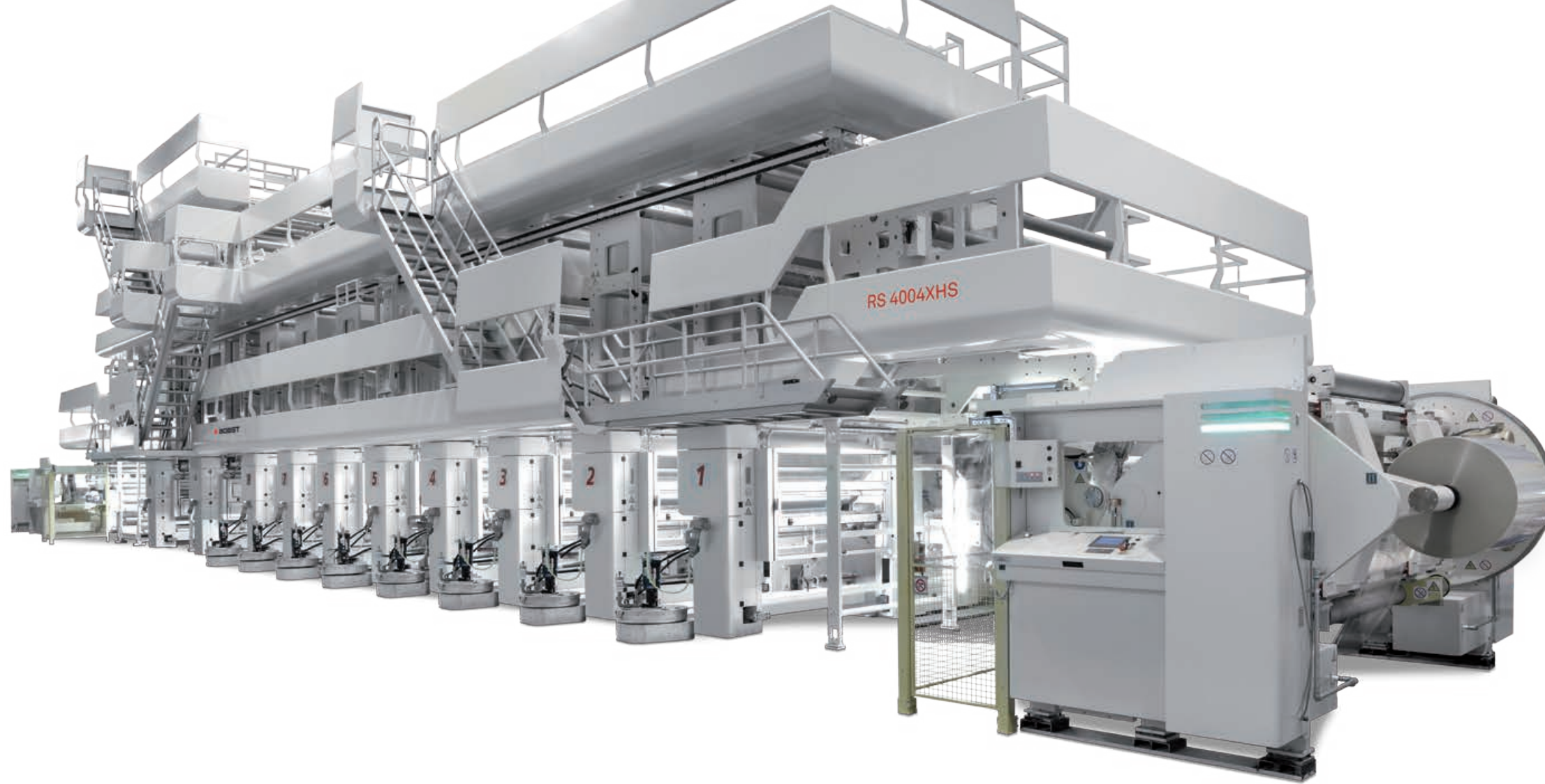
Web width	mm	inches	RS 6003S	RS 6003S HS	RS 6003C HS
	800 – 1500	31.5 - 59		•	•
	1000 – 1300	39.4 - 51	•		
Printing cylinder repeat	mm	inches			
	450 – 920	17.8 – 36.2	•	•	•
Max speed	m/min	ft/min			
	450	1476	•	•	•
	500	1640		•	•
	600	1968		•	•

### Twin Trolley

The flexibility of the RS 6003 platform extends to the choice of trolley. Alongside the conventional interchangeable trolley, there is the option of equipping the press with the BOBST Twin Trolley (TT) solution. The TT's design is unique in allowing offline separation between the color and printing cylinders. This means that it is possible to move both, or either, to

storage or to a different print unit, hence keeping the CMYK process colors always on board irrespective of where in the press they should be positioned. The efficiency of the Twin Trolley system enables it to achieve up to a 50% reduction in ink and solvent waste, as well as considerable time savings.





## RS 4004X HS

# RS 4004X AND MW 60 | MW 80 TWO PLATFORMS UNLOCKING UNIQUE USER BENEFITS

### RS 4004X excellence across a mix of print jobs

The name RS 4004X denotes a platform of machine configurations that encompasses BOBST's cutting-edge gravure printing technology. Delivering all the benefits associated with excellence in quality and performance, the models in the RS 4004X range offer an ample choice of advanced automation features and customization. Available in either shafted or shaftless configuration, with or without on-board washing, each model handles a mix of different job applications and run lengths in the most profitable way possible.

### The competitive advantage of superior register control

Major productivity gains from BOBST gravure press operation derive from the integration of Electronic Shaft (ES) technology with BOBST Registron® register control systems. To further improve performance at make-ready and changeover, the machines are equipped with the Total Automatic Pre-register Setting (TAPS) function for automatic pre-register setting at the touch of a button.

### Efficient drying systems and ventilation

The efficient, high performance drying system on the press ensures quality of production and also enables maximum efficiency in terms of thermal energy. The ability to safely deliver maximum solvent concentration exhaust to the air treatment system allows energy recovery and minimizes its carbon footprint.

Web width	mm	inches	4004X	4004X HS	4004Xi	MW 60	MW 80
	650	25.6				•	
	850	33.5					•
	850 - 1550	33.5 - 61			•		
	1050 - 1450	41 - 57	•				
	1050 - 1650	41 - 65		•			
Printing cylinder repeat	mm	inches					
	300 - 800	11.8 - 31.5				•	•
	450 - 1020	17.8 - 40.2	•	•	•		
Max speed	m/min	ft/min					
	250	820				•	•
	450	1476	•		•		
	600	1968		•			



### MW 60 | MW 80 unbeatable performance for short and ultrashort run production

The MW 60 | MW 80 printing presses have been designed for market segments that need dedicated equipment for short or ultra-short run production. MW stands for Minimized Waste and true to their names the MW presses are record breakers in waste reduction. A number of technical innovations, most particularly their levels of automation and unique dryer configurations, bring unparalleled benefits in terms of machine profitability.





# LEMANIC RIVIERA ILS®

## MASTERING THE GRAVURE PRINTING PROCESS

The BOBST range of gravure printing solutions is impressively wide. Alongside platforms for flexible materials, there are leading-edge solutions dedicated to paperboard and carton packaging that serve the cigarette packaging, general folding carton and liquid packaging sectors, as well as manufacturers of decorative printing for PVC wood imitation.

### LEMANIC® DELTA and LEMANIC RIVIERA ILS® Tobacco and general folding carton applications

Printing and converting cartons in a single continuous process, the production lines based on the BOBST LEMANIC® platforms increase the visual impact of packaging with in-line printing, varnishing and coating, and deliver challenging graphic design with outstanding productivity. Their particular strengths come in satisfying the stringent high-end requirements of the tobacco industry, as well as those of the folding carton sector.

### RS 700D Decorative printing applications

The RS 700D printing presses are tailored to decorative printing applications for the furniture and interior decoration industries. End products include PVC and vinyl laminate wood imitation floors, wall panels, worktops and window sills. Available in printing widths up to 3000 mm, variable width models are an option.

Substrates	g/m <sup>2</sup>	points	LEMANIC® DELTA	LEMANIC RIVIERA ILS®	RS 500L	RS 700D
Paper	40 - 120	2 - 6				•
Paper	70 - 160	3.7 - 7		•		
Paper	80 - 160	4 - 7	•		•*	
Board	160 - 350	7 - 18	•	•	•*	
Board	160 - 500	7 - 26		•		
Laminates			•	•	•	
Max speed	m/min	ft/min				
	200 - 250**	660 - 820**	•	•		
	250 - 400	820 - 1312		•		
	450 - 600	1476 - 1968				•
	500	1640			•	

\* grammage depending on application    \*\* option



### RS 500L Liquid packaging applications

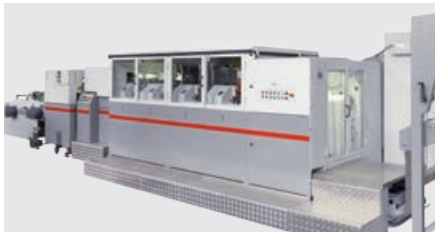
A high capacity gravure press designed for paperboard and liquid packaging applications, the RS 500L combines high technical standards with extraordinary performance.

# CARTON CONVERTING

## CUTTING EDGE FLEXIBILITY

A pioneer of every aspect of the in-line process, BOBST offers production lines that add the maximum possible value to printed paper and carton board. These lines are delivered as start-to-finish turnkey projects that combine superb print quality with recognized leadership in flat-bed and rotary die-cutting technology.

The superb integration between BOBST elements makes it possible to create a variety of paper and board converting lines suitable for all printing technologies and using either inline or offline converting.



**LEMANIC® RDC** The RDC rotary die-cutters are ideally suited for folding cartons applications, using common carton profiles and with medium-to-long run lengths.



**LEMANIC® FCC** In a market where blanks are frequently changing shapes and dimensions, the flat-bed cutting process provides the necessary flexibility along with cost-effective tooling and operation.



**LEMANIC® SHEETER** The best solution for high value-added finishing, product launches and low volume production.



**LEMANIC® SPEEDFLOW** This module is part of the delivery section and enables optimal collecting of finished products at maximum production speed on all LEMANIC® lines.

Substrates	g/m <sup>2</sup>	points	LEMANIC® DELTA			LEMANIC RIVIERA ILS® / Offline		
			SHEETER	FCC	RDC	DRIVE/V-DRIVE	FCC	SHEETER
Paper & board								
	80 - 350	4 - 18	•					•
	180 - 350	8 - 18		65	•	•		
	180 - 500	8 - 26				•	65	
	200 - 500	9 - 26					82	
Max speed	m/min	ft/min						
	200	660	•	65	•	•	82	
	250	820	option		option	•	82	•
	275	902				•		•
	400	1312				•		•



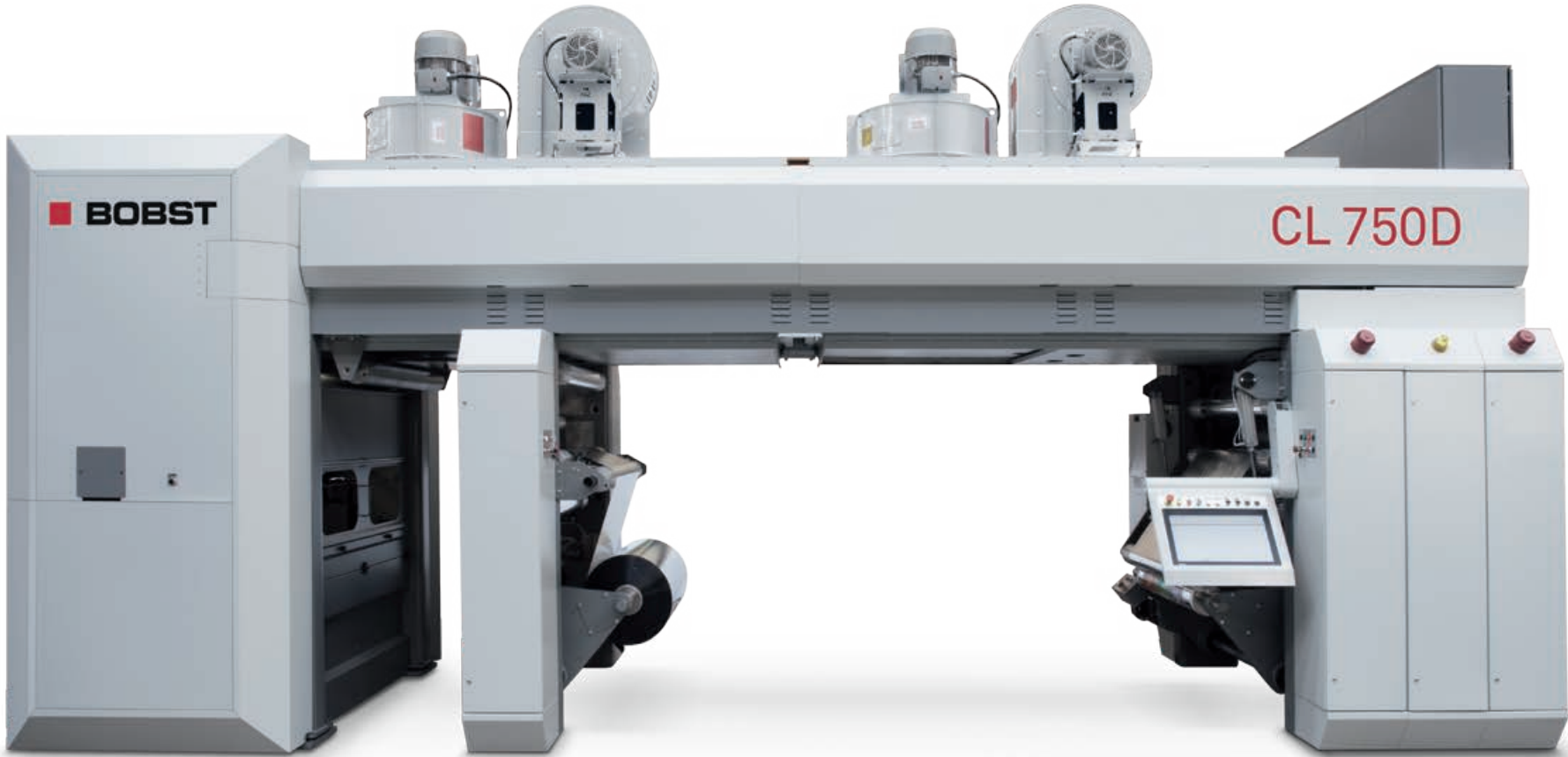
**LEMANIC® DRIVE** The DRIVE range of rotary die-cutters provides consistent converting quality at record speeds. The V-DRIVE version is a unique feature to optimize tool costs.



**LEMANIC® SLEEVEEXPERT** BOBST offers embossing solutions adapted to complex packaging trends. A large spectrum of applications are available such as embossing and debossing in one pass, over embossing, rounded corner, bevelled edge and other multiple embossing.



# LAMINATING



CL 750D

## COMPACT, EASY, POWERFUL

The new platform of BOBST laminators represents all of the BOBST know-how and expertise in advanced lamination technology distilled into compact solutions: the CL 750D duplex combi-laminators, available as the **CL 750D** with simplex winders and **CL 750DA** with turret-type automatic winders; and the **SL 750D** duplex dedicated to solventless applications. For converters looking for the most efficient and competitively priced duplex laminators, the latest BOBST developments provide best in class solutions and are ideal for satisfying requirements from ultra-short run production to a wide range of substrates and web combinations. Optimized ergonomics facilitate all the operations required by the various process applications, enabling very fast job changeovers without tools. “Zero waste” technology allows immediate productivity without any waste at start up.

### CL 750D and CL 750DA

Ease of use is reflected in many aspects and functions of these machines, starting from the layout with front extrac-

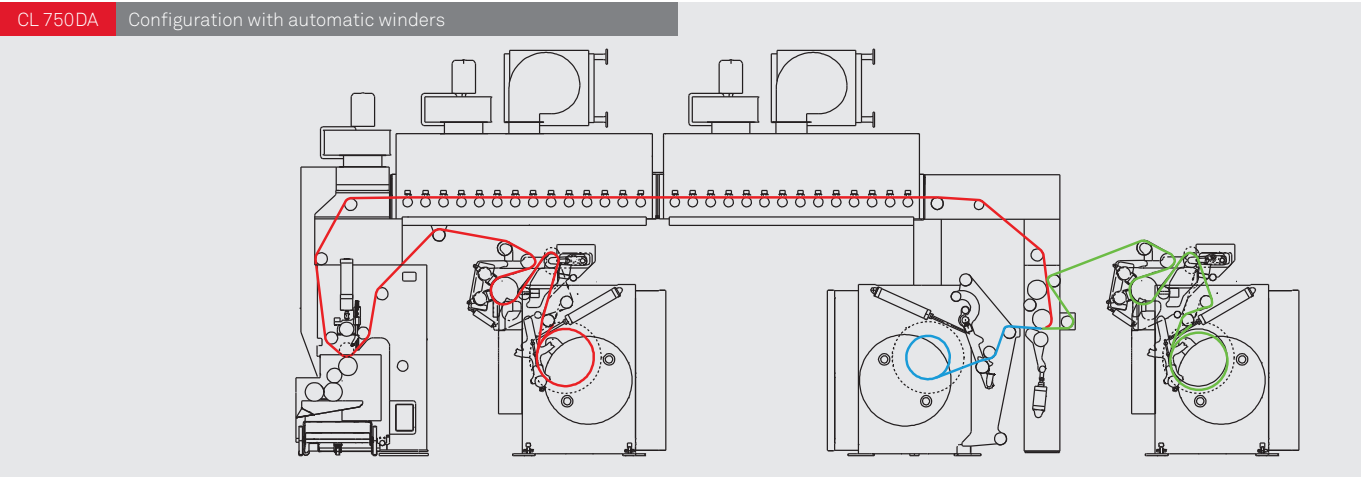
tion of the trolleys, to job changeovers without tools. Both compact multi-technology laminators utilize a sleeve-type system which is light, accessible and easy to use.

The drying tunnel offers motorized rollers and straight web-paths for perfect transportation of all kind of substrates. This is crucial in preventing the formation of defects on the web, especially with critical substrates such as metallized films. The dryer nozzles are very easy to extract for cleaning operations. The double-sided independent movement of the winders improves safety and reel locking.

### SL 750D

The coating head of a solventless dedicated solution is of great importance. The solventless system on the SL 750D is very accurate and ensures optimum uniformity of adhesive metering, reduced energy consumption and less wear and tear of mechanical parts.

Technology	CL 750D		CL 750DA	SL 750D
Gravure	•		•	
Cold seal	•		•	
Solventless	•		•	•
Web width	mm	inches		
	400	15.8	•	•
	1000 - 1300 - 1500	39.4 - 51 - 59	•	•
Max speed	m/min	ft/min		
	450	1476	•	•
	500	1640		•





CL 1000TX

# HIGH PERFORMANCE SOLUTIONS FOR DUPLEX AND TRIPLEX LAMINATION

By focusing on the core strengths required to achieve the highest, and most consistent level of performance BOBST has developed a range of technologically advanced laminating solutions able to satisfy the requirements of all sectors of the market.

The **CL 850** and **CL 1000** platforms comprise of **duplex, duplex tandem** and **triplex** multi-technology laminators. All configurations provide for very fast job make-ready and changeovers, with minimum downtime and material waste. These efficient, operator-oriented and eco-friendly technical solutions enable converters to improve profitability through high machine productivity and production quality.

The striking performance of the **SL 850** and **SL 1000** range of duplex laminators dedicated to solventless applications is due to both the design of the coating unit, which enables a very low fault rate, and to the overall machine configuration. The performance of the coating unit, the ergonomic design, and the optimized integration of each machine section and its functions, make BOBST laminators very efficient production tools.

Technology			CL 850D CL 850TD	CL 1000D	CL 1000TX	SL 850	SL 850HP	SL 1000	SL 1000HP
Gravure			•	•	•				
Flexo			•	•	•				
Semiflexo			•	•	•				
Cold seal			•	•	•				
Solventless			•	•	•	•	•	•	•
Web width			mm	inches					
			1350	53	•	•	•		
			1350 - 2000	53 - 78.7	•	•		•	•
Max speed			m/min	ft/min					
			450	1476	•	•		•	
			600	1968	•	•	•	•	•

## Flexo coating system

BOBST's flexo coating system is acknowledged as the highest quality application for solvent-based adhesives. It provides a far superior optical quality of the laminated structure due to improved adhesive distribution, a lower coating weight with comparable bond strength, and a wide coating range without changing the coating cylinder.

## In register cold seal

Integrating the very latest Registron® scanning head technology, the system is a unique waste-saving feature. By reading the adhesive coating itself on the pre-printed reels, it makes it possible to verify in real time that the application has occurred and immediately identify and rectify any defects.

## Tunnel

The dryer's dual technology nozzles - impingement and floatation types - enable optimum air impact on both sides of the substrate along the entire web length. Nozzles, rolls and filters are easily removed, can be cleaned off-line without stopping production, and can be replaced within seconds.



# EXTRUSION LAMINATING



## ROTOEXTRUDER 700FTD

## HIGH TECHNOLOGY SOLUTIONS IN EXTRUSION LAMINATING

The BOBST expertise and experience in the engineering and manufacturing of converting equipment also includes extrusion coating and laminating lines.

ROTOEXTRUDER is a range of custom-built extrusion coating lines for flexible packaging and for paper and board applications.

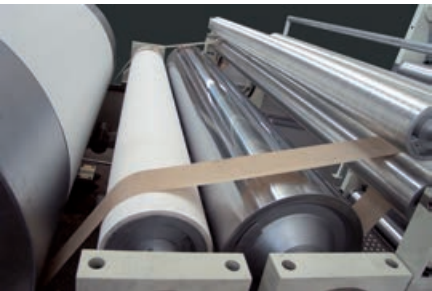
The **ROTOEXTRUDER 400F** and **700F** are lines dedicated to flexible packaging production which can produce composite structures, up to seven-layer, at high speed. Their modularity provides for a wide range of possible configurations, including the option to upgrade the machine to tandem configuration any time after installation.

The **ROTOEXTRUDER 600P** is dedicated to paper and board applications. Because of the variety of possible material combinations, which depends on the specific requirements of the given application to be run on the line, they can be supplied with additional elements for performing the different processes required by the final product type. This includes the possibility of adding in-line flexo or gravure units for logo printing.

Web width	mm	inches	400F   400FTD	700F   700FTD	600P   600PTD
	1300 - 1700	51 - 67	•		
	1500 - 2000	59 - 78.7		•	
	2000 - 2700	78.7 - 106			•
Max speed	m/min	ft/min			
	400	1312	•		
	600	1968			•
	700	2300		•	

### High efficiency dryer

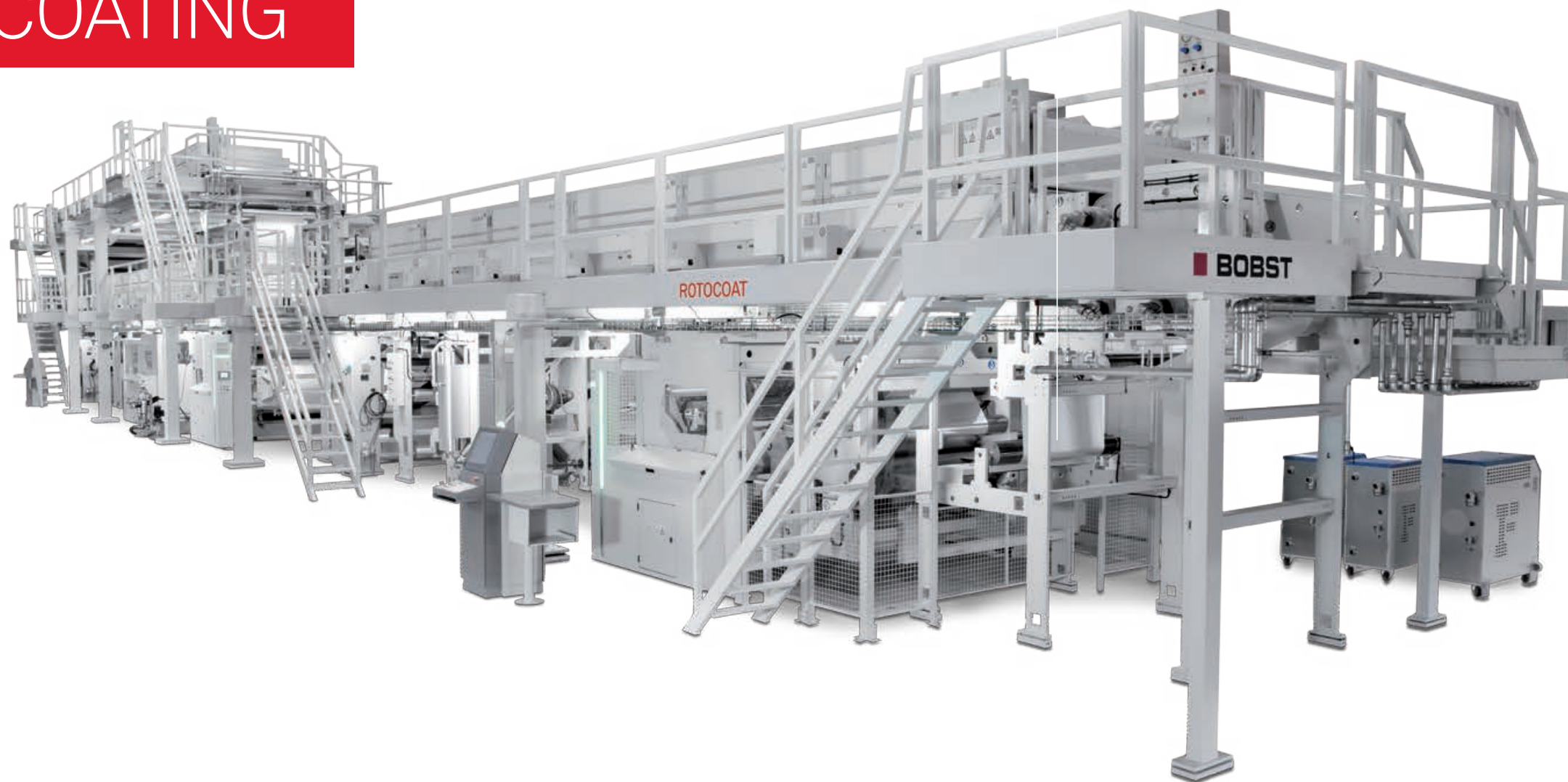
The impingement dryer is highly efficient and functional, enabling perfect web handling and thorough cleaning of nozzles and rollers. As the efficiency of the drying and ventilation system is crucial and an important source of energy savings and reduction of CO<sub>2</sub> emissions, the recirculation group has been sized to optimize power consumption, and the hood is insulated to prevent heat dispersion.



### Extrusion coating and laminating unit

A carriage with three motorized movements, along with a high cooling capacity roll, enable wide range regulation for improved performance and better control of the extrusion parameters, as well as lower power consumption of the chiller.

# COATING



## ROTOCOAT

## A HOST OF CUSTOM-MADE SOLUTIONS

With over 50 years' experience and know-how in coating, drying and web handling, BOBST has built a world-wide reputation as a supplier that is ahead of the latest trends in coating applications. BOBST can, therefore, offer its customers a range of different technologies, providing them with the best quality and most highly-efficient solutions that help them deliver the requirements of their final product. And this is whether they need single process machines or multi-technology lines featuring dedicated trolleys for different applications.

Giving a remarkable flexibility in the choice of the most suitable coating technology, BOBST **ROTOCOAT**, **ROTOMELT** and **ROTOSIL** coating lines always offer excellent accessibility to all machine sections, allowing for make-ready and changeover operations that are easy and safe for the operator. Cleaning and maintenance operations also benefit greatly from the ergonomic design of these lines.

**ROTOCOAT** is a range of coating and laminating machines featuring a wide choice of coating methods. The main fields of application encompass adhesive coating for label stock, aluminium foil lacquering, paper and film coating, pre- and post-metallization coating on paper, and adhesive coating for technical products. The modularity of ROTOCOAT allows for a wide range of configurations, including various lamination solutions or the integration of additional dedicated features.

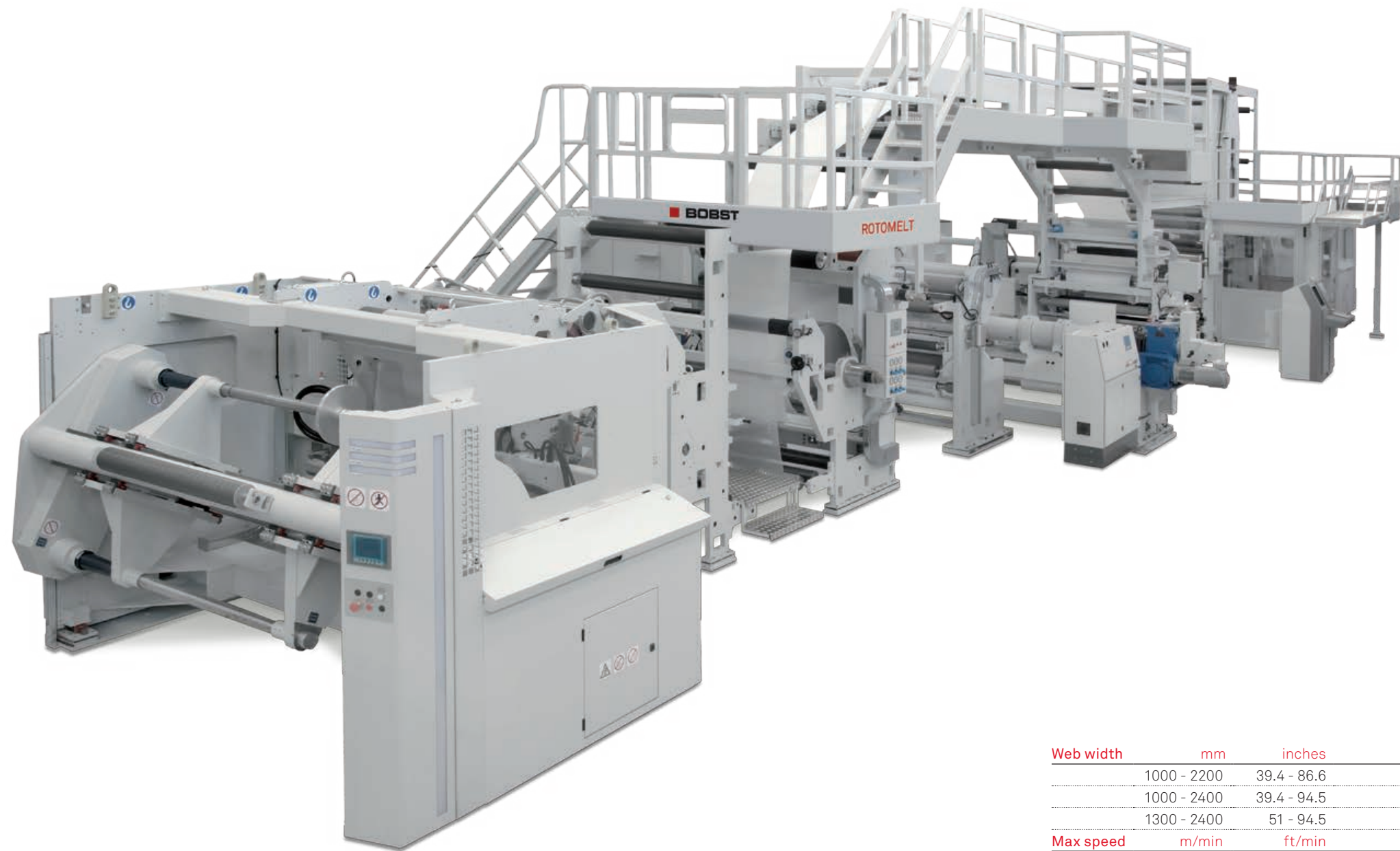
**ROTOMELT** is a surprisingly versatile hot melt coating and laminating machine designed for a wide range of coating weights and viscosities, for full width or stripe coating applications. Its main fields of application are consumer tapes and technical tapes, both linerless and laminated.

Designed with a unique modular coating unit and roller surface treatments optimized for sticky products, ROTOMELT ensures perfect control at every point in the process, regardless of whether the substrate is paper, film, non-woven, fiber based, or a laminated product.

**ROTOSIL** is a high performance silicone coating machine designed for several fields of application including the label-stock, food and hygienic product markets. Accuracy of the coated layer, and an even and consistent coating profile along the running process, are the key features of the coating units, regardless of whether smooth roller or gravure roller systems are used.

Combined with ROTOCOAT or ROTOMELT adhesive coating and lamination groups, ROTOSIL can apply further in-line processes to create labelstock in one pass.





# ROTOMELT

Web width	mm	inches	ROTOCOAT	ROTOMELT	ROTOSIL
	1000 - 2200	39.4 - 86.6		•	
	1000 - 2400	39.4 - 94.5	•		
	1300 - 2400	51 - 94.5			•
Max speed	m/min	ft/min			
	800	2625		•	
	1000	3281	•		•

## High performance drying systems

Drying solutions are available using floatation, roller or BOBST specific combined nozzle type technology. Different ventilation systems are also available, with internal or external ventilation configuration depending on the required performance of the machine and the substrates to be processed. One of the latest BOBST developments is a high-temperature combined floatation and impingement roller type dryer delivering air temperatures over 300°C, and featuring a multi-layer insulation concept with high performance composite elements. This allows the system to keep the surface temperature of the dryer as close as possible to the temperature of the room where the machine is installed and to achieve a very homogeneous temperature profile in both the machine and the directions.



## Pressurized chamber doctor blade

The newly engineered pressurized chamber doctor blade system offers a wider coating weight range and minimizes the shear stress that might affect the performance and visual appearance of the product. The new design is faster to set up and change over, while also making maintenance tasks easier and quicker for the operator. The pressurized chambered doctor blade can be used on both integral and trolley type versions of coating units.

## Dedicated winding solutions

Different winder types - shafted or shaftless, simplex or duplex turret-type, or specifically designed for adhesive products - are available depending on the requirements for machine performance. Highly efficient technical solutions optimize the use and recovery of electrical power thus enabling an important reduction in the level of energy consumption.

# VACUUM METALLIZING



K5 EXPERT

## HIGH PRODUCTIVITY, MAXIMUM EFFICIENCY

The **K5 EXPERT** is the next generation of the successful K5000 metallizer, it can run at speeds up to 1200 m/min and offers increased roll diameters up to 1270 mm reacting to new industry trends. The new machine provides significant cost saving innovations to reduce energy consumption, consumables usage and film waste which results in the lowest production costs available in the market.

Also part of the K-series family is the **K4000**, a machine which is highly versatile and can produce barrier and decorative coatings for the converting market, in addition to being able to selectively metallize in-line and in-register using the SelectMet® process.

The K4000 is the choice of converters worldwide and offers maximum flexibility and versatility for the narrow web market.

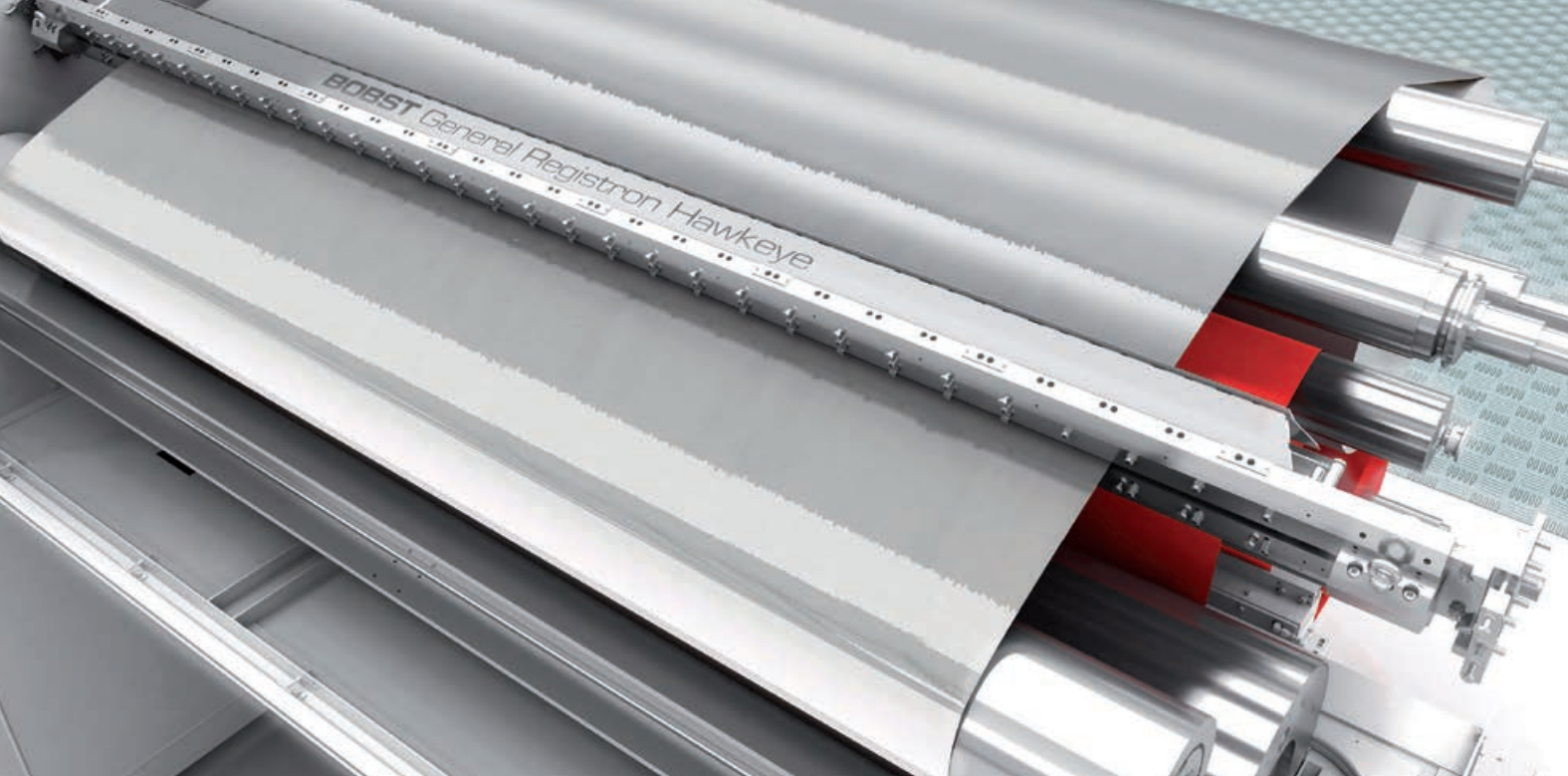
The **K3000** is an entry level metallizing machine that allows converters to produce relatively small volumes of the highest quality aluminium coatings on PET, BOPP, CPP and other film substrates.

### Plasma Treatment

BOBST's plasma systems work to enhance adhesion and barriers against oxygen and water vapour transmission, delivering improved packaging performance and extended shelf life.

Web width	mm	inches	K3000	K4000	K5 EXPERT
	425 - 1250	17 - 49	•	•	
	825 - 1650	32.5 - 65		•	
	1025 - 2450	40.4 - 96.5		•	
	2025 - 4850	79.8 - 191			•
Max roll diameter	mm	inches			
	800	31.5	•		
	1000	39.4		•	
	1200+	47.2+			•
Max speed	m/min	ft/min			
	400	1312	•		
	840	2756		•	
	1000	3281			
	1200	3937			•
Integrated technologies					
			Hawkeye	•	•
			AlOx	•	•
			DarkNight®	•	•
			SelectMet®	•	
			AluBond™	•	•





## PROCESS KNOW-HOW AND CONSULTANCY

As well as developing and supplying innovative solutions to the industry, BOBST is unique in the vacuum metallizing industry as a supplier who can also help customers to optimize processes for their specific requirements

### SelectMet®

The new and revolutionary BOBST SelectMet® system incorporates BOBST heritage flexo printing technology into a vacuum metallizer. This innovative process runs on the K4000 platform. SelectMet® is only available for the most commonly used metallizer widths in the converting industry: 1250mm & 1650mm. Unlike the traditional and rather messy oil boilers, in the unique SelectMet® system the oil is loaded at room temperature through an external oil bath; this results in a much cleaner process and gives the ability to perform longer production runs. Another key feature is the quick and easy change of the printing sleeve; changeovers are typically done in less than 10 minutes. SelectMet® provides faster, more accurate printing with metal onto film substrates and allows for the production of creative, high resolution patterns and greyscale images. A flexible and versatile oil printing process system; BOBST SelectMet® provides a wide range of added-value applications for specialist converters.

### Hawkeye

BOBST Hawkeye is a monitoring system that, at full metallizer speed, detects, counts and categorizes pinholes and other defects from 0.1mm upwards. This allows process control that brings increases in both speed and final product quality. Hawkeye comes as standard with both the AlOx and DarkNight® processes. As part of the AlOx system, Hawkeye allows greater precision control and quality assurance; combined with the DarkNight® system, Hawkeye provides a new approach to defect reduction and allows for the production of higher barrier films.

### AluBond®

The BOBST AluBond® process provides high metal adhesion and surface energy levels through vacuum metallization, eliminating the need for chemically treated films. This is an advanced metal adhesion technology; high bonding strength is achieved on any substrate with the unique BOBST AluBond® metallizing process.

### DarkNight®

Defects on metallized films lead to a drastic deterioration in barrier properties and poor appearance, known in the industry as “Starry Night”; this reduction in barrier performance leads to a shorter shelf life for food products. In order to meet the increasingly demanding standards of the flexible packaging industry for barrier applications and products with longer shelf lives, BOBST has developed DarkNight®, a unique and innovative process to produce high-barrier metallized films.

Traditionally, thin aluminium foils are used as a barrier in laminate structures to protect products; however, technological advances made recently by BOBST are a major step forward in the journey to full aluminium foil replacement with high barrier metallized films produced using the BOBST DarkNight® process. Very low water vapour and oxygen permeation rates can be achieved at a lower cost as the process eliminates the need to use high Optical Density (OD) deposition levels; an enhanced barrier performance is achieved by reducing defects during the vacuum metallization process.

Enhanced barrier performance means superior packaging protection properties (permeation resistance) resulting in increased shelf life for food products.

- 90% Defect reduction\*
- 80% Barrier improvement\*

\*actual values largely depend on film properties

### AlOx

The BOBST AlOx process is an innovation which enables standard metallized film and AlOx coated film to be produced on one machine, with switch-over at the touch of a button. The process enables the production of high barrier transparent films with a low cost of production in comparison to equivalent atmospheric coatings. The BOBST technology uses the controlled injection of oxygen into the aluminium vapour stream, causing a reaction between the two elements to produce aluminium oxide (AlOx). BOBST along with other leading players in the industry has developed an integrated solution for the conversion of AlOx films which incorporate the application of an off-line topcoat to prevent barrier performance loss during conventional conversion processes.







## EQUIPMENT DESIGNED TO PERFORM

Every new machine we develop is based on extensive market analysis, and on customer input and feedback. We use this feedback to help us continually develop and enhance our products.

Our equipment is engineered to generate customer benefits through increased productivity and profitability, and to provide early return on investment.

## BOBST INTEGRATED PROCESS TECHNOLOGIES A UNIQUE COMPETITIVE ADVANTAGE

BOBST equipment benefits from its wealth of fully integrated, productivity-enhancing systems. Patented and high-performing, they are exclusive to BOBST equipment and, integrated into it, further enhance the capabilities and efficiencies of each machine.

Whether installed on BOBST gravure printing presses for flexible materials or on BOBST gravure printing & converting lines for folding carton, **Registron® register control systems** ensure the highest accuracy and fastest correction speed in print-to-print and print-to-conversion registration.

**TAPS Total Automatic Pre-register Setting** on gravure presses for flexible materials provides a totally reliable system that pre-registers in a matter of minutes and at just the touch of a button, dramatically cutting waste at start-up and changeover for new and repeat jobs.

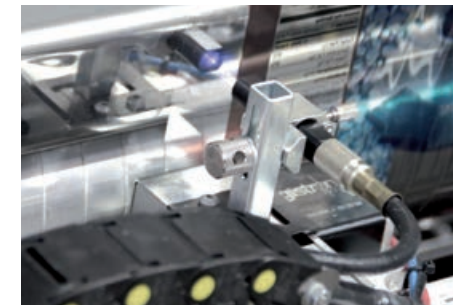
**Registron® iQ400** quality control leaves no room for printing defects, inspecting 100% of the substrate surface at all speeds, 100% of the time.

**smartGPS™** is the leading industry standard for registration and impression setting on CI flexo printing presses. The perfect answer to the challenges of a modern and high-technology packaging industry, smartGPS™ makes even the smallest order highly profitable.

**colorCONTROL** is a holistic approach to efficiently matching colours. It is an approach which does not only include leading hardware and software features but also includes expert analysis and consultation of the whole process. When using colorCONTROL, the time required for matching color is dramatically reduced.

**smartSET** is a highly efficient system for semi-automatic on-press impression and registration set-up which considerably reduces waste and increases production time on CI flexo printing presses.

**Digital Automation™** is a revolution in engineering and in the way inline flexo and inline multi-process printing & converting label, packaging and carton presses operate. It considers all the possible operations and makes them fully digitally checked, adjusted and controlled.





# COMPETENCE CENTERS



BIELEFELD, GERMANY



S. GIORGIO MONFERRATO, ITALY



MANCHESTER, UK

BOBST operates facilities across the world for R&D and testing of its own equipment and for its customers to view and trial the advanced technology solutions that are available. Here they can experience such solutions without disruption to the production schedules in their factories, and they can also join in with the joint development of process improvements along with other suppliers of equipment, devices and consumables.

Called Competence Centers, these facilities exemplify the commitment of BOBST to be at the forefront of technological research and innovation, not only as a leading machine manufacturer, but also as a process supplier. There are currently four Competence Centers dedicated to web-fed technologies and these are located in the production

plants of BOBST Centers of Excellence in Germany, Italy and the UK. The service at each location is run by an experienced team of BOBST engineers and process specialists who provide full support and advice to clients throughout trial runs and laboratory analysis.

The Competence Centers' multiple services also include training courses for customers' machine operators and technicians helping them ensure that their equipment is always run in the most cost-effective, safe and efficient way. Customer training packages are also provided at the customers own premises.



FIRENZE, ITALY

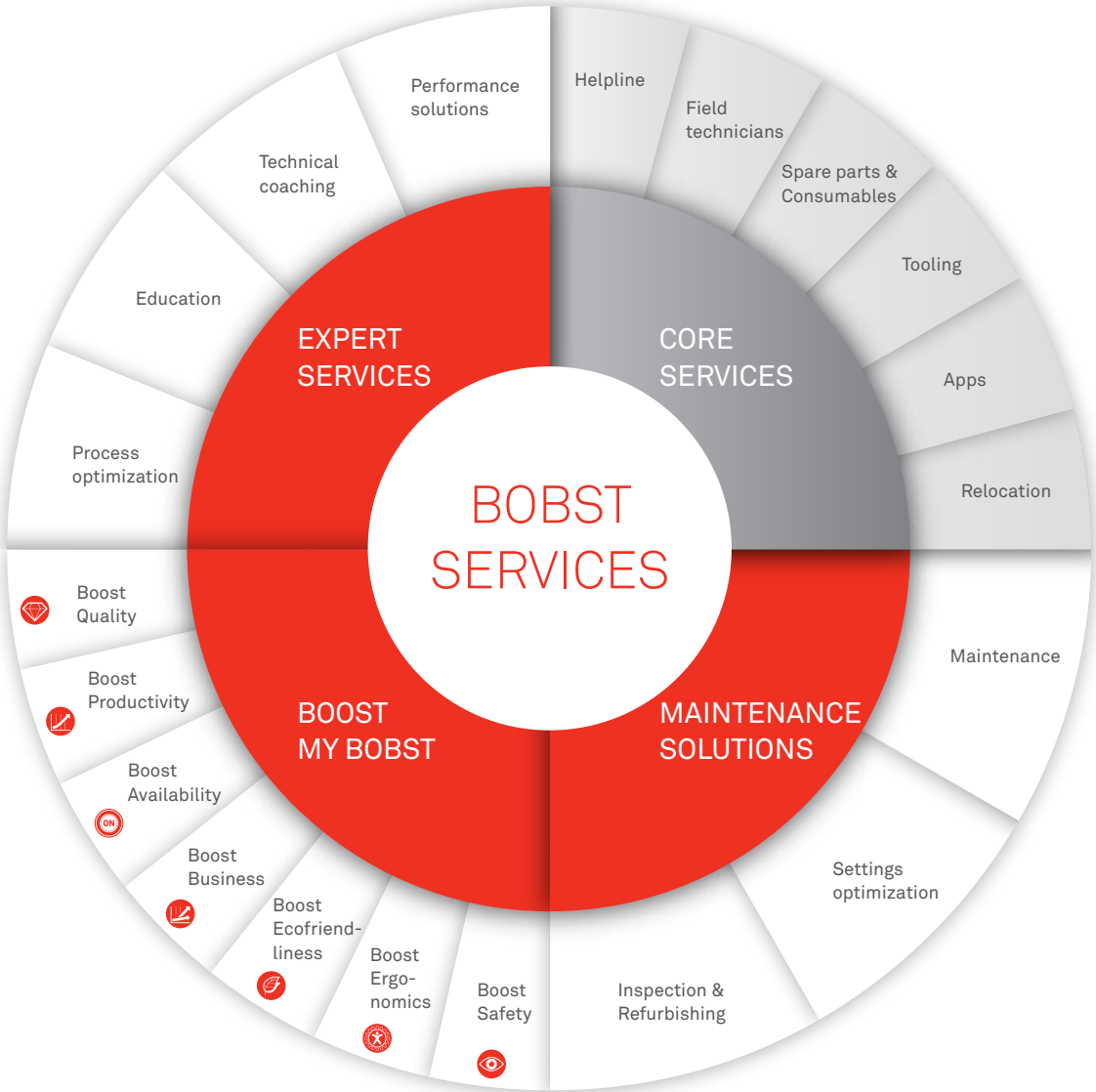
## BOBST FIRENZE AND THE REVO ACADEMY

The Competence Center at Bobst Firenze is also home to the REVO Academy. Launched in 2014, the REVO project has brought together a team of technology-leading companies who are pulling their competences together to optimize flexo printing, by "digitalizing" the complete manufacturing pro-

cess, as well as through the use of the Extended Color Gamut technology, in the sectors of label and narrow- mid-web packaging printing. The REVO partners include Americk Packaging, Apex International, AVT, BOBST, DuPont, ESKO, Flint, X-Rite/Pantone and UPM Raflatac.



# TAILORED SERVICES



**Beyond technology**

For 125 years, BOBST has pursued its quest for innovation and excellence. The expertise it has developed is not just limited to producing the equipment that has built its reputation. The company has also created – using the same approach – a full range of services that cover every process, and their optimization.

Through its services, BOBST puts its passion for the industry at the disposal of its customers to help them improve their production, every day and for the long term.

It brings to them its unique knowledge of the technology, as well as its vision of the entire sector and its trends.

BOBST grows and continuously improves its services. Among its current projects, Mybobst.com is a brand new web platform that will offer each customer faster, more personalized and easier access to its services.

To be a global benchmark means offering outstanding services.



**IMPROVING AVAILABILITY**

Through the highly effective management of its parts inventory, BOBST is typically shipping 93% of urgent orders within 24hrs and 90% of standard orders within 48hrs.



**REDUCING ENVIRONMENTAL IMPACT**

The “Thought for Food Packaging” program; the BOBST “Green Awards”: BOBST has developed multiple initiatives and uses advanced technologies to guarantee safe and environmentally responsible packaging production.



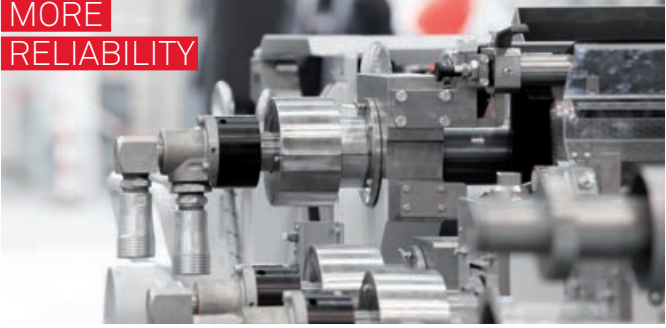
**MORE CONTROL**

BOBST’s state-of-the-art Apps allow users to connect to their BOBST equipment anywhere, anytime.



**BOOSTING PRODUCTIVITY**

The “Boost my BOBST” program improves the overall efficiency of BOBST equipment and extends its capabilities.



**MORE RELIABILITY**

BOBST offers customized solutions that ensure that its equipment achieves maximum productivity for many, many years.



BOBST's know-how and experience are also there to service our customers through an extensive network of dedicated, skilled technicians and highly qualified expert consultants. These are complemented by a host of services and equipment dedicated to maintaining and improving the performance of your installed machines, from the timely supply of spare parts to remote service assistance.

#### **Spare parts and consumables**

BOBST is committed to providing you with the best spare parts and consumables, delivered as quickly as possible. These parts and consumables are fully compliant with rigorous BOBST quality criteria - and only they guarantee the optimal operation of your equipment. Parts are available to you worldwide: we stock them in our Distribution Centres in Europe, in the United States and in Asia. Two new Distributions Centers, dedicated to serving the Asia-Pacific region, opened in Singapore and in Shanghai in 2016. These centres ensure optimal delivery times with same day delivery if you need it, as long as the part is in stock!

#### **Equipment improvement solutions**

A full range of upgrade and retrofit solutions are available to keep your production equipment at the leading edge of productivity. Technological developments move at a fast pace, providing the opportunity to implement solutions for bringing installed equipment up to the highest operating potential, and so to guarantee maximum efficiency throughout its lifetime.

#### **By maximizing your shopfloor operations you achieve:**

- Less waste during make-ready
- Less waste during changeovers
- Eliminate lost time
- Opportunities for energy consumption savings
- Improved crew safety
- Lower overall costs

#### **And reap the benefits of:**

- Increased production flexibility
- Increased print quality
- Extended equipment life
- Reduced costs of operation
- Faster delivery time to your customers
- Increased profitability



#### **Remote services**

With our remote services, your machines remain at the peak of their performance at all times. Our expertise and our innovative solutions help you reduce downtime and costs.

Through our telephone helplines, you will benefit from the expertise of BOBST technicians worldwide. Our specialists will answer your questions, track down and resolve problems, and identify necessary spare parts. Our technicians can also work remotely on your equipment directly via the Internet, allowing you to cut your assistance costs as 80% of problems can be resolved without the need for a visit by a BOBST engineer.

A host of other advanced remote services is also available so that you can enjoy the assurance of optimized assistance, and access the very latest monitoring applications.

#### **Maintenance solutions**

One-off, periodic or full maintenance contracts are available to you so that your machines are always at the peak of their performance. Who other than BOBST could look after your BOBST machines so well?

Our comprehensive range of solutions include, in-depth inspection visits, maintenance, preventive maintenance, periodic maintenance, and full maintenance contracts.

#### **Field technicians**

Several hundred BOBST experts are at your service worldwide. They come to you the moment you need them. Our engineers and technicians cover every field of activity, bringing to you all their expertise and experience of BOBST equipment. They also keep our machine database up to date to ensure faster diagnostics and interventions. You therefore benefit from personalized advice, specifically adapted to your equipment.

#### **Training and expertise**

Your competitiveness is driven by your employees, and training is key to using your equipment to its full potential. The BOBST People Development Process is very successful in developing effective staff within customers' plants and skilled technicians within BOBST, both being key elements in achieving BOBST's service goals. Customers' operators and maintenance personnel have access to common, global training programs, run by BOBST experts at our approved centres or directly at your production site; they will help you derive maximum benefit from your production equipment.



# LEADING INNOVATION WORLDWIDE



BOBST has production facilities on three continents, as well as a sales and services network with facilities in more than fifty individual countries. This worldwide coverage is one of the key factors behind BOBST's position of leadership in its industry. By delivering support close to its customers, in their language and with respect to their customs, BOBST helps customers achieve higher quality, improved productivity and reduced operating costs.

Group production sites with sales and services

Number of Group production sites in the country

Group companies and representative offices for sales and services

Agencies and representatives for sales and services

**Reconditioning :**  
Brazil

**Strategic partner:**  
BHS Group, Germany

**Other subsidiary:**  
Gordon Ltd, China



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