

# Gravure excellence with highest color consistency



IN-LINE PRINTING AND CONVERTING

LEMANIC<sup>®</sup> DELTA

At a glance

# Unmatched productivity

The **LEMANIC® DELTA** is a web-fed printing and converting line for cardboard that delivers finished blanks in a single machine pass. Addressing medium to long runs, the line's modular concept allows easily to add additional processes to the core configuration of gravure printing combined with flat-bed or rotary converting. This flexibility offers customization for today's and future production requirements.

**BOBST**

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**Outstanding** gravure printing quality and repeatability

**Maximizing** your profits

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

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# Creating value

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

[> READ MORE](#)

## Functional packaging and protection

Protecting the goods in a clever way is required. Single serve, multi-packs, re-sealable, see-through.

## Customization, versioning, personalization

Packaging needs to reach all segments of the society taking almost any shape and size from very short runs to reprint and long runs. All with the best color consistency.

## E-commerce & omni-channels

Multiple retail formats set new requirements for packaging. On-demand production, timely delivery across multiple designs, shapes and sizes.

## 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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Gravure printing at its best

### Outstanding gravure printing quality and repeatability

- Excellent repeatability and consistency
- Very high print resolution
- Broad range of ink variety
- Brilliant colors every job every time
- Compact and easy to operate inking system embedded in an inking cart
- Superior drying capability for various ink types without compromising speed



Keys to productivity

### Most efficient printing results

- 30 Mio. square meters of printed and converted board per year
- Very short web path to minimize waste
- Drying with low energy consumption
- High printing accuracy through web elongation control
- Fully controlled back printing (no turn bars)

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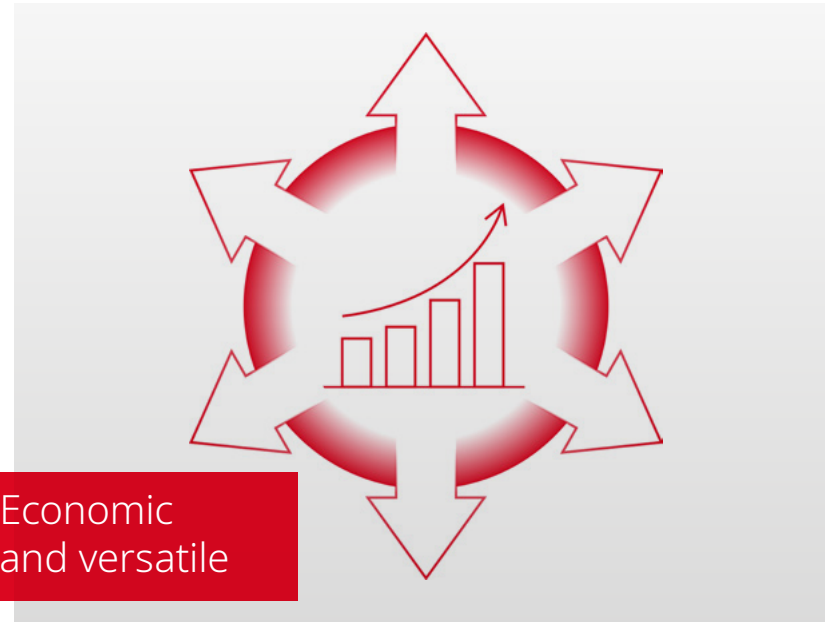
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### Advanced ergonomics

- Ergonomic and centralized operator interface with job ticket and easy editing possibilities
- Quick changeover concept with printing carts
- Optimized inking with hydrostatic bars
- Fully integrated auxiliary features (electro-static assistance for printing enhancement and viscosity control)
- Easy web handling and very accurate tension control throughout the printing process.



### Economic and versatile

#### Minimize waste

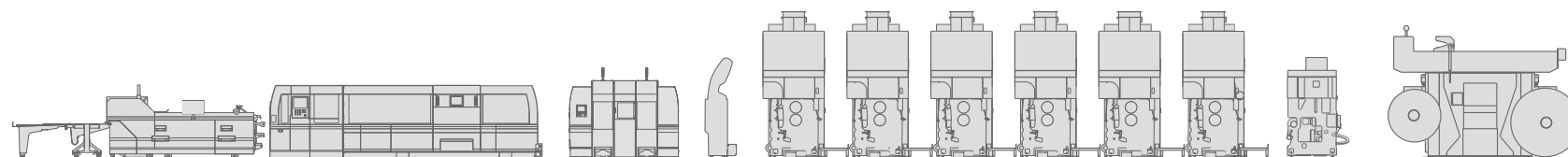
- 30% shorter length than conventional presses
- No turn bars for back printing or before converting for optimized register
- Minimal ink circulation volume
- Good tolerance to different quality of reels

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Line specifications	LEMANIC® DELTA - SHEETER		LEMANIC® DELTA - FCC 65 HS		
	Paper and board	80 – 350 g/m <sup>2</sup>	4 – 18 points	200 – 350 g/m <sup>2</sup>	10 – 18 points
Web width	410 – 820 mm	16.1 – 32.2 in	325 – 650 mm	12.8 – 25.6 in	
Ink types	Solvent-based	Solvent-based	Solvent-based	Solvent-based	
	UV-based	UV-based	UV-based	UV-based	
	Water-based	Water-based	Water-based	Water-based	
Number of printing units	up to 12 units*	up to 12 units*	up to 12 units*	up to 12 units*	
Heating system. Electrical/steam/thermal oil	Yes	Yes	Yes	Yes	
Production speed, up to	200 m/min	660 ft/min	200 m/min	660 ft/min	
Option max speed, up to	250 m/min	820 ft/min	-	-	
Printing feed-up	440 - 810 mm	17.3 - 31.9 in	440 - 810 mm	17.3 - 31.9 in	
Converting feed-up	440 - 810 mm	17.3 - 31.9 in	325 - 650 mm***	12.8 – 25.6 in	
Sheeter pile height	up to 1600 mm	up to 63 in	-	-	
Unwinding diameter	paper	1200 mm	48 in	-	
	board	1850 mm	72.8 in	1850 mm	72.8 in
Core diameter	paper	75 mm	3 in	-	
	board, paper on sheeter	150 mm	6 in	150 mm	6 in
	board	300 mm	12 in	300 mm	12 in
Web tension	paper	0.12 to 0.5 kN/m	0.68 to 2.85 P/LI **	-	
	board	Up to 1.00 kN/m	Up to 5.7 P/LI **	Up to 1.00 kN/m	Up to 5.7 P/LI **

All technical data is subject to change without notice

\*For 12 printing units & electrical heating: upon technical validation

\*\*P/LI - Pounds per linear inch

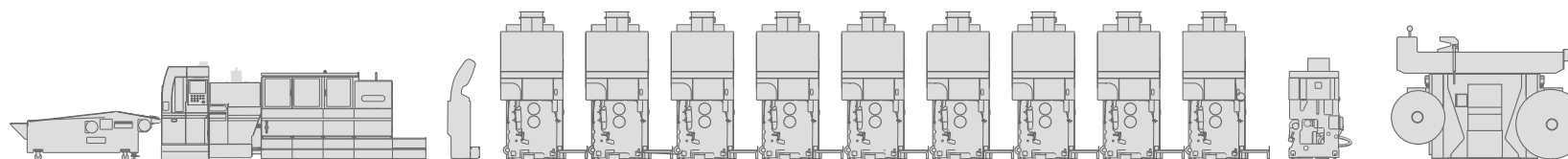
\*\*\*Up to 820 mm in sheeter mode (32.3 in)

Metric figures prevail

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<b>Line specifications</b>		<b>LEMANIC® DELTA - RDC 67 D</b>		<b>LEMANIC® DELTA - RDC 82 D</b>	
Paper and board		180 – 350 g/m <sup>2</sup>	8 – 18 points	180 – 350 g/m <sup>2</sup>	8 – 18 points
Web width		335 – 670 mm	13.2 – 26.4 in	410 – 820 mm	16.1 – 32.2 in
Ink types		Solvent-based	Solvent-based	Solvent-based	Solvent-based
		Water-based	Water-based	Water-based	Water-based
Number of printing units		up to 12 units*	up to 12 units*	up to 12 units*	up to 12 units*
Heating system. Electrical/steam/thermal oil		Yes	Yes	Yes	Yes
Production speed, up to		200 m/min	660 ft/min	200 m/min	660 ft/min
OPTION max speed, up to		250 m/min	820 ft/min	250 m/min	880 ft/min
Feed-up printing		440 - 810 mm	17.3 - 31.9 in	440 - 810 mm	17.3 - 31.9 in
Feed-up converting		750 - 1280 mm	29.5 - 50.4 in	750 - 1280 mm	29.5 - 50.4 in
Unwinding diameter	paper	-	-	-	-
	board	1850 mm	72.8 in	1850 mm	72.8 in
Web tension	paper	-	-	-	-
	board	Up to 1.00 kN/m	Up to 5.7 P/LI**	Up to 1.00 kN/m	Up to 5.7 P/LI**
<b>Option reel-to-reel/rewinder in by-pass</b>					
Paper and board		80 – 350 g/m <sup>2</sup>	4 - 18 points	80 – 350 g/m <sup>2</sup>	4 - 18 points
Production speed, up to		200 m/min	660 ft/min	200 m/min	660 ft/min
Production speed, option		250 m/min	820 ft/min	250 m/min	820 ft/min
Core diameter	paper	-	-	-	-
	board	150 mm	6 in	150 mm	6 in
	board	300 mm	12 in	300 mm	12 in

All technical data is subject to change without notice

\*For 12 printing units & electrical heating: upon technical validation

\*\*P/LI - Pounds per linear inch

\*\*\*Up to 820 mm in sheeter mode (32.3 in)

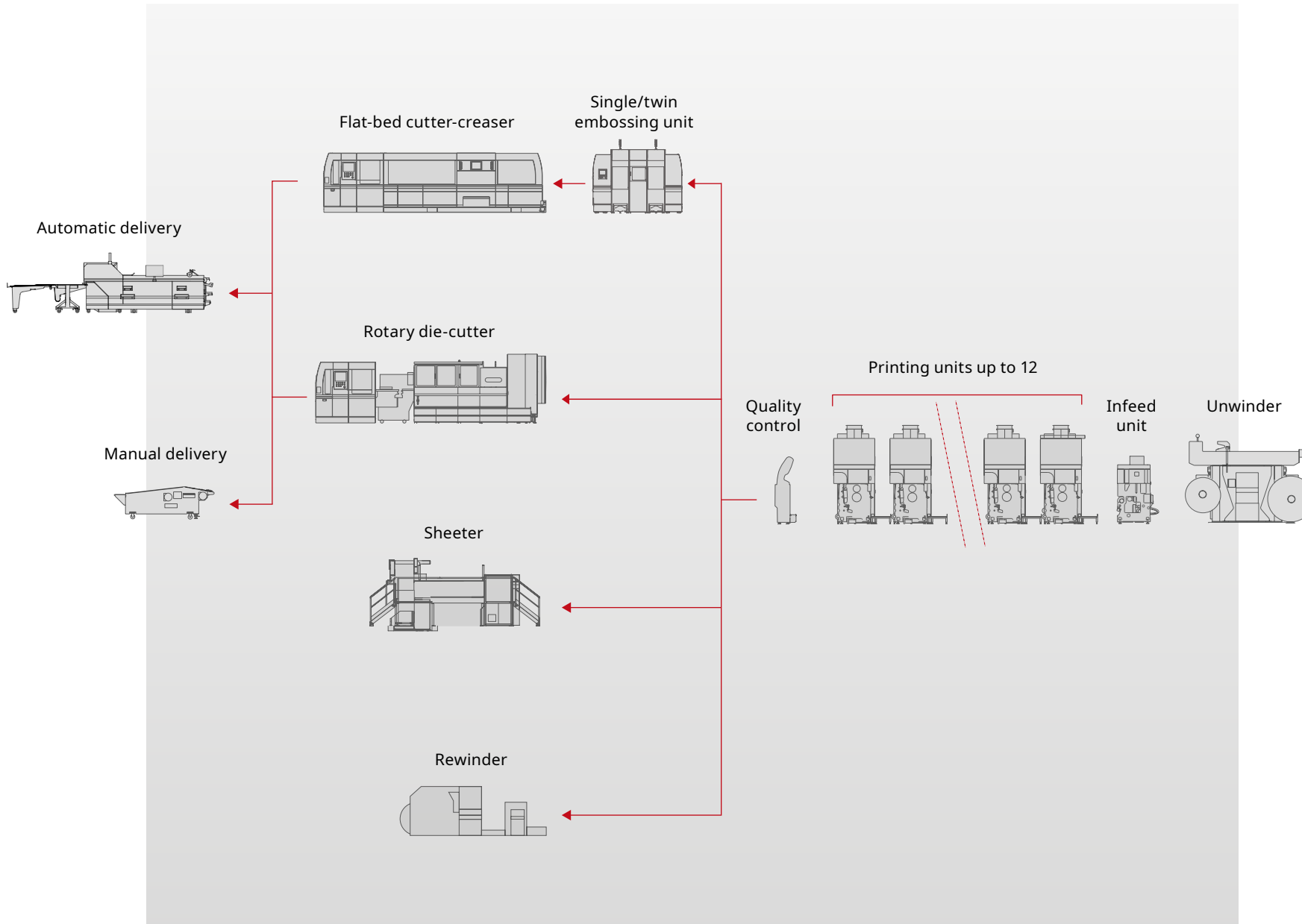
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### > LEMANIC® FCC

LEMANIC® flat-bed cutter-creaser (FCC) is the perfect answer to ever changing market needs, it allows to cover a broad portfolio of different forms and shapes to be converted for small to medium runs. Thanks to its high versatility and fast tooling availability, the FCC guarantees optimized cost-efficiency. All-in-one operation, embossing, creasing, cutting, together with the Registron® register control system results in excellent and consistent register accuracy.



### > LEMANIC® RDC D

Rotary converting is an unrivalled method in terms of quality, consistency and cost-efficiency for medium to high production volumes. LEMANIC® rotary die-cutters have solutions for each particular application: crush-cut (CRC) for high precision work and scissor-cut (DKC) for general folding cartons.

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### > LEMANIC® SLEEVEPERT

LEMANIC® SLEEVEPERT is an independent servo driven embossing unit. Equipped with the Registron® control system, it guarantees incomparable embossing accuracy and a tangible value-added feature to the packaging. The SLEEVEPERT has been designed to combine quality production with ease of use. The sleeve tooling technology allows quick job changeover from the operator side without cutting the web.



### > LEMANIC® SPEEDFLOW

LEMANIC® SPEEDFLOW is an automatic delivery module creating perfect piles of blanks, printed side up. The SPEEDFLOW processes up to five metric tons of stacked piles in a working day. This leads to optimum production, reduction of operator interventions and is ideally suited for linking to automated palettization systems.

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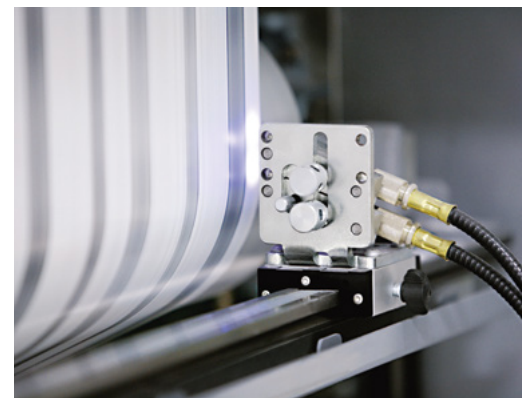
### > LEMANIC® SEPARATOR

LEMANIC® SEPARATOR is a fully automated module. It spreads the blanks, breaking their nicks to achieve aligned and homogeneous shingled streams for continuous production output. Thanks to its ultra fast set-up in only three minutes, it contributes in adding up to 30% of additional productivity. The SEPARATOR can eject single defect blank when detected by the BOBST quality control system, at any production speed.



### > Registron® IQ 400

Registron® IQ 400 is the gateway to zero fault quality production levels for international brands. This in-line quality inspection system is fully integrated in the LEMANIC® lines, scanning 100% of the web surface at all speeds, 100% of the time. Thanks to secured pre-set quality levels, each job is screened with customized parameters and preventive warning levels. Eventual defects are automatically classified, recorded, tracked and even ejected down to a single blank at full production speed.




### > Registron® S 6100 D

Registron® ensures optimum product quality with tight and consistent accuracy for all registered process. Fully integrated in the LEMANIC® lines, it ensures minimal waste for all production steps, regardless of the press configuration. Its highly advanced set of features deal with a broad range of applications including virgin, recycled and holographic laminated boards, very low contrast varnishes and even in-setting for pre-printed board.

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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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# Just in time manufacturing is waiting for you

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