Automated versatile press
for label and flexible packaging
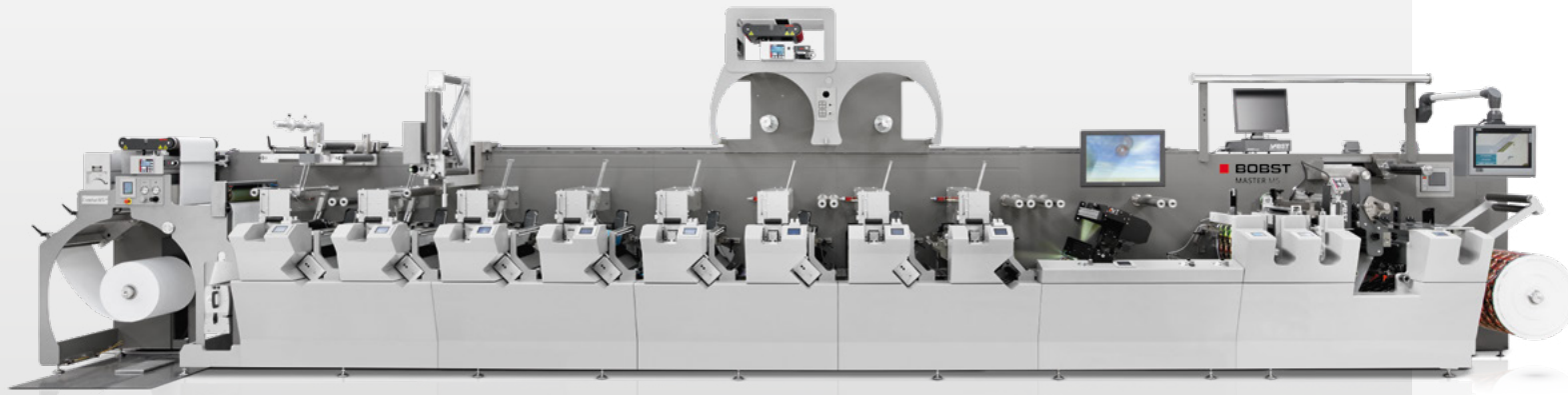
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_Advancing
flexibility

Built for full digitalization of the production workflow, the **MASTER M5** is the ultimate press for converters willing to automate their production line, with systems and solutions that reduce downtime and waste. Configurable with print cylinders or sleeves, the machine is ready to be equipped with oneECG technology, delivering repeatable consistency run after run irrespective of the application run length, and minimizing ink consumption and stock.

Outstanding productivity oneECG ready

Precision and quality consistency

More uptime, top efficiency

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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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Exceptionally flexible

- Ideal for long runs and short runs with high-quality and profitability
- Handles various types of substrates used for the production of labels, flexible packaging and specialties
- Multi-process, product enhancing inline finishing applications
- Lamination technologies: solventless, solvent-based, water-based
- Cast and cure
- Cold foil and hot foil
- Multi-layer coupon labels
- Multiple printing processes available: flexo, silk screen, gravure

Fast and uninterrupted production

- Very high press uptime, very fast time-to-market
- DigiFlexo for automatic register control and printing pressure adjustment and DigiGap for automated die-cutting pressure control. They provide the shortest set-up time, minimal waste and consistent quality during production
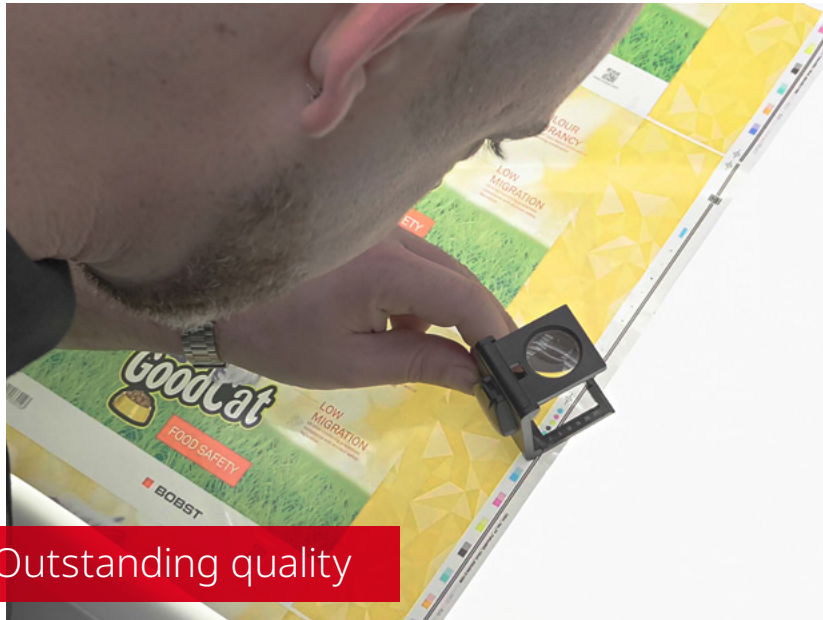
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Outstanding quality

Sustainable, easy to run, connected

– Very accurate web-tension control from unwinder to rewinder
– Flexo printing units with over-dimensioned chilled drums for positive web transportation on the most critical substrates
– Automatic pre-register setting
– ARC automatic print-to-cylinder register control
– SnowBall Lite and Bambi technologies for high speed waste matrix rewinding with difficult materials and/or label shapes
– Easy drop-in technology for fast interchangeability of flexo, silk screen and hot foil. Ready in few minutes

– Very short set-up time and waste
– Digital automation ensuring productivity and process repeatability
– Very easy to run for less experienced operators
– Minimum and tool-free operator intervention
– Touch panel on each print unit and main touch screen HMI
– Production data accessible from remote devices

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Specifications – Measurements

1		**MASTER M5**
	2 m	6.56 ft*

2		
	3 m	9.84 ft*

3		
	11 m	30.09 ft*

*Measurements as per machine configuration featured above: Web width 430 mm - 17 in, 8-colors, 3 die-cutting units. Values may vary according to the configuration.

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Materials handled

Substrates	
Self-adhesive stock (paper, PET, BOPP, PVC), glossy paper 60 to 100 gsm, unsupported film from 12 μ (PVC, BOPP, PET, PA), alu-foil from 20 μ, lamitubes, light cardboard up to 300 gsm	

Capability

Drive		Full servo
Gear pitch	3.175 mm	1/8 in
Number of printing units		Unlimited
Flexo cylinder repeat, min-max	139.5 - 609.5 mm	5.5 - 24 in
Flexo sleeve print cylinder repeat, min-max	305 - 609.5 mm	12 - 24 in
Web width*	370 mm	14.5 in
	430 mm	17 in
	530 mm	21 in
Speed, max	200 m/min	660 ft/min
Min. web path per unit (print to print)	1395 mm	54.92 in
Unwinding diameter, max	1000 mm	39 in
Rewinding diameter, max	1000 mm	39 in

*Print width: less 10mm

Die-cutting

Number of units		3+
Repeat, min-max (370 mm - 14.5 in)	279.5 - 609.5 mm	11 - 24 in
Repeat, min-max (430 mm - 17 in)	305 - 609.5 mm	12 - 24 in
Repeat, min-max (530 mm - 21 in)	355.5 - 609.5 mm	14 - 24 in
Matrix roll diameter	700 mm	27.5 in
SnowBall Lite		Standard
Bambi		Available
Metronome		Available

Automation

Automatic pre-register	Standard
Automatic register	Standard
DigiFlexo	Available
Excellence	Available
DigiGap	Available

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Dryers

UV on 27 in chilled drum	Standard
UV LED	Available
Hot air/IR dryers	Available
Multiple drying options for UV, water-based and solvent-based inks	UV, IR, hot air

Accessories

Rail	Available
Web turn bars	Available
Delam Relam, up to 3 colors on adhesive	Available
Combo laminator and cold foil	Available
Lamination	Available
DigiGold	Available
Coupon: Combo 2 layers	Available
QN3/5: 3 to 5 layers booklet labels	Available

Printing

Sleeve type print unit version			Available
oneECG process			Available
Hot foil stamping print repeat, min-max	305 - 609.5 mm	12 - 24 in	Available
Gravure print unit repeat, min-max	330 - 660 mm	13 - 26 in	Available
Silk screen repeat, min-max	305 - 641 mm	12 - 25 1/4 in	Available

Product types

PSA labels
Wet glue labels
Linerless labels
In-mould labels
Wrap around labels
Shrink sleeves
Multi-layer peel-and-reseal coupon labels
Labels combining all methods
Flexible packaging
Aluminium foil packaging
Laminated tubes
Lottery tickets and security products

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Delam-Relam

Enables printing up to 3 colors on the adhesive for back side printing or multi-layer labels

Cold foil stamping

Cold stamping of glossy metallic effects with lower plate costs and higher speeds, using a Flower flexo head.

– Highly accurate control of foil tension on unwind and rewind shaft
– High precision adjustment of laminating pressure
– Multiple foils on the same shafts
– Movable on each print unit

Hot foil stamping

Hot foil stamping enables to create graphics that are visually compelling and have a huge impact in improving brand recognition and the perceived quality of a product. The DigiGold digitally automated hot foil stamping solution delivers very fast, easy and repeatable set-ups, with digital pre-setting of job pressures. The unit is movable on each Flower print head
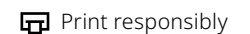

Multiple web-handling expertise

BOBST technologies for multiple web handling allow a wide range of possible multi-layer label configurations.

– Combo: 2-layer coupon labels
– QN3/5: 3 to 5 layers booklet labels

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Silk screen

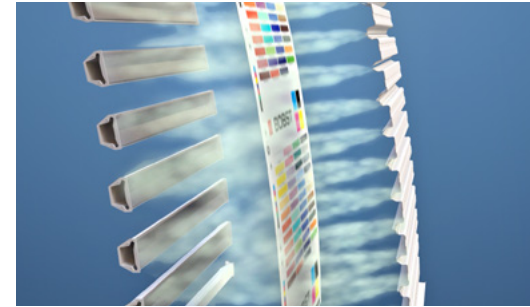Ideal process for applications that need high coverage, accuracy of detail and color strength such as:
– Tactile
– Braille
– Matt and gloss effect
– Security printing
– Printing of high brilliance color on transparent substrate

Gravure unit

Heavy-duty high speed gravure unit developed in synergy with the BOBST Gravure Center of Excellence's team. Slide-in/Slide-out system for fast change of all elements of the print units
– Cold seal and heat seal lacquers
– Metallic inks
– Security applications

Choice of dryers

Different type of dryers are available for water and solvent-based applications. Modular design to adapt to specific requirements according to ink systems, coverage, and production speed. The corrosion-resistant components make all dryers suitable for water-based applications.
– Dryer's lengths from 0.5 to 8.0 m
– Multiple heat sources according to customer requirements
– Exclusive drying technology for higher speed and efficiency

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The digital world
of printing

DigiFlexo Automation features:

– Minimum waste at start-up
– The most consistent printing and converting quality - controlled and adjusted at any speed
– Minimize waste and setup time
– Ensure consistent printing and conversion quality at any speed
– Ensure consistent and repeatable quality and performance, with less reliance on operator skills
– Ensure profitability even with very short print runs

A BOBST exclusive technology program, DigiFlexo Automation uses a wide range of new digital technologies to make printing and converting operations repeatable, quality-driven, consistent and highly efficient.

Product	Benefit
DigiFlexo	
PrintTutor	Full Automatic registration control
PrintTutor PLUS	Motorized pressure control
DigiGap	
DigiGap	Digital gap and pressure control for accurate die-cutting pressure
QuickCut	Automatic non-stop on-the-fly waste stripping path change

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Driving the
industry transformation

BOBST offers the ability to view, understand and test printing and converting solutions in its Competence Centers. Physical or virtual visits with our experts are completely tailored to client's requirements and needs.

Mex, Switzerland

Based in our Headquarters, get to know all our digital printing products showcased there

Firenze, Italy

BOBST Label printing hub dedicated showcase to the full label printing portfolio, including all inline flexo printing, converting, All-in-One and digital inkjet technologies

Alpharetta, USA

Based on our US Competence Center, meet our experts and get to know our latest digital and All-in-one printing solutions

Itatiba, Brazil

Based on our South America Competence Center, discover how Label solutions by BOBST can satisfy your needs. Go deeper in the details discussing with our experts about our latest technologies and solutions

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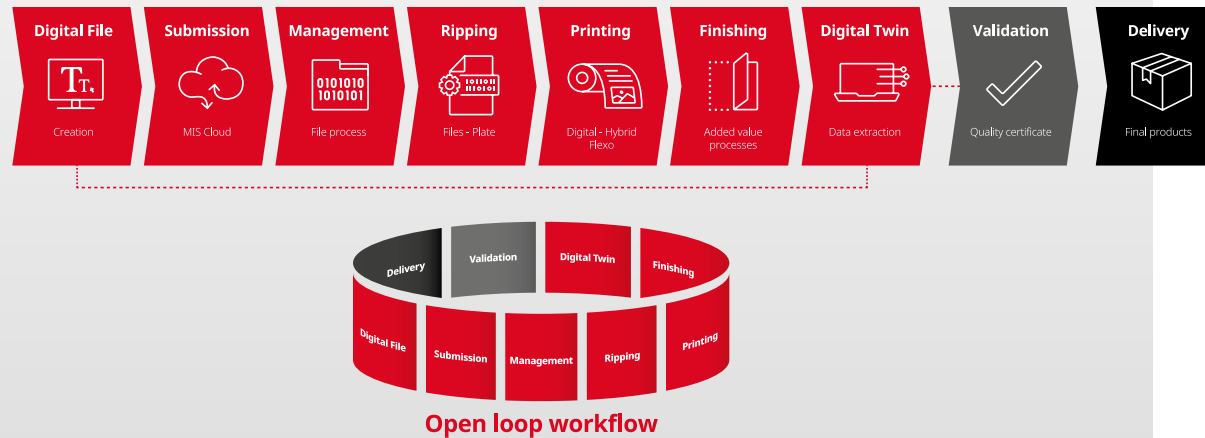
_What is **oneECG?**

oneECG is BOBST contribution to the pioneering project set up in 2013 by a team of leading industry suppliers in the label and packaging industry with a view to digitalize the flexo process. Together they developed the DigiFlexo printing technology and a turnkey process named REVO that closes the gap between digital inkjet and traditional flexo, offering very productive process and presses that combine non-stop and versatile production at the very low operational costs.

oneECG Academy

Bobst Firenze is BOBST Center of Excellence for inline flexo printing. Its Competence Center is also home to the oneECG Academy where printers can experience and test end-to-end turnkey solutions that flow from pre-press through to printing, converting and data storage. The pre-press facility is equipped with state-of-the-art of ESKO and DuPont equipment including the Kongsberg Cutting Table and the ESKO and X-Rite software for color management.

Open loop workflow

From job creation to final delivery, we collaborate with the industry's top-leading companies for a seamless implementation of the workflow in their environment.

Digital File	Submission	Management	Ripping	Printing	Finishing	Digital Twin	Validation	Delivery
Creation	MIS Cloud	File process	Files - Plate	Digital - Hybrid Flexo	Added value processes	Data extraction	Quality certificate	Final products

Open loop workflow

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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 printing and 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.

Benefits

Equipment Monitoring
– Boost productivity with equipment monitoring including equipment status and production data analytics

Performance management
– Identify and optimize production trends with real-time and historical performance data

Reporting
– Increase profitability with data reporting and trend analysis

Remote assistance
– Increase machine up-time thanks to
  – Priority access to technical specialists
  – Remote support with video and augmented reality

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People, technologies and processes

Site readiness
All begins with a pre-installation audit and site survey of your production floor and workflow to streamline integration with your current production equipment and qualify designated press operators

Operator training
BOBST assures your operators are qualified, certified and trained including on preventive maintenance and troubleshooting

Installation & ramp-up support
A BOBST service engineer will follow your production ramp-up confirming that workflow and pre-press and machine are optimized

BOBST Global Customer Care Center
It provides support for operators to handle all service escalation across all disciplines

Advanced technological tools
Remote support is complemented with augmented reality technology and predictive failure resolution incl. IoT capabilities

Onsite support
BOBST provides one of the highest ratios of field service engineers to presses in the business leveraging a global network across the globe

One-stop, easy-to-use Customer Portal
All BOBST customers have access an online portal providing customized dashboards, knowledgebase, current case management details, status reports for billing and production and updates
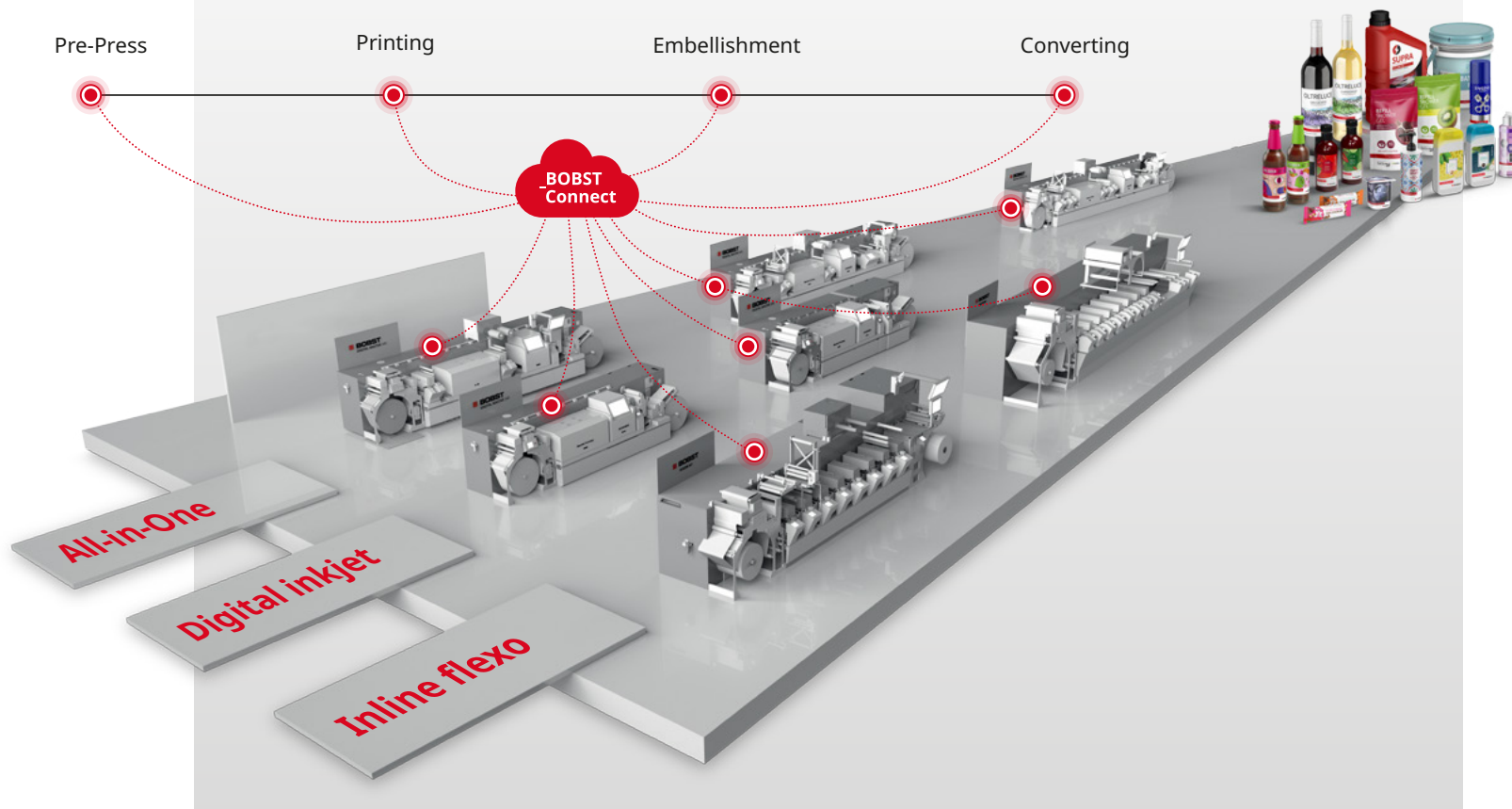
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Simplifying **label production**

Pre-Press · Printing · Embellishment · Converting

BOBST Connect

All-in-One
Digital inkjet
Inline flexo

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