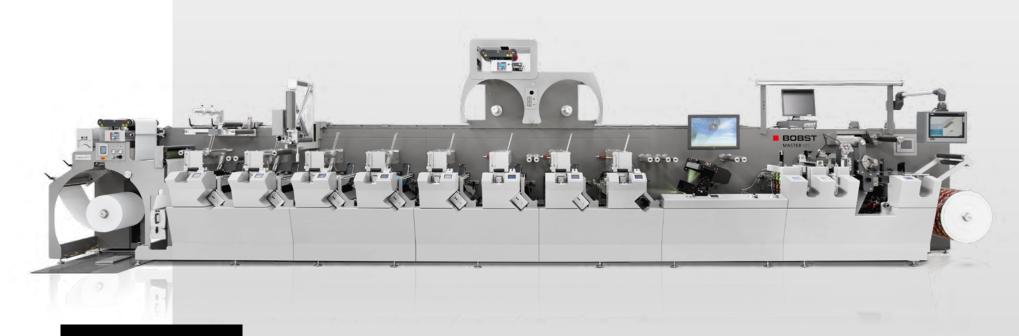
The ultimate

digitalized flexo press



FLEXO PRINTING

MASTER M5



_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 one**ECG** 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.

> READ MORE

Safety

Food safety and brand protection are major requirements. Anti-counterfeiting and traceability are required across the entire supply chain.

Customization, versioning, personalization

Packaging needs to reach all segments of society taking almost any shape and size across multiple job lengths across the globe.

Color control and brand image

Color consistency and control across all substrates needs to be guaranteed for brands to look good across the globe.

Sustainability

Packaging production needs to reduce its environmental carbon footprint – less waste across the entire supply chain. New and thinner substrates. Recycling and re-use are the new rules.

Faster time-to-market

A growing number of products need to reach consumers faster. Product lifetime is shorter. From product design to the consumer experience, the supply chain has to be more agile.

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Benefits and features 1 - 3

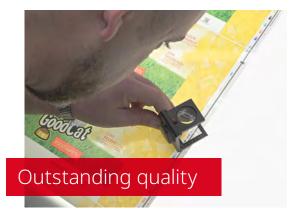




- Ideal for short runs compared to a digital machine, long runs, profitability, quality and product diversification all in one press
- Handles all types of substrates used for the production of labels, flexible packaging and specialties
- Multi-process, product enhancing inline finishing applications
- Lamination technologies: solventless, solvent-based, water-based
- Cast & cure
- Cold foil and hot foil
- Multi-layer coupon labels
- Multiple printing processes available: flexo, silk screen, gravure



- On-the-fly job changeovers
- Very high press uptime, very fast time-to-market
- Excellence: special solutions for automatic exchange of printing cylinders and of die-cutting stations without stopping the press
- DigiFlexo for full digital registration and printing pressure adjustment and DigiGap for digitally automated die-cutting pressure control. They provide the shortest digital set-up time, minimal waste and consistent quality during production



- Very accurate web-tension control from unwinder to rewinder
- Flexo printing units with overdimensioned chilled drums for positive web transportation on the most critical substrates
- Automatic pre-register setting
- ARC automatic print-to-cylinder register control
- Infinite Flower flexo head for controlling print density changes at speed variations, monitoring ink temperature
- SnowBall Lite and Bambi technologies for high speed waste matrix rewinding with difficult materials and/or label shapes
- Ready: easy drop-in technology for fast interchangeability of flexo, silk screen and hot foil. Ready in few minutes

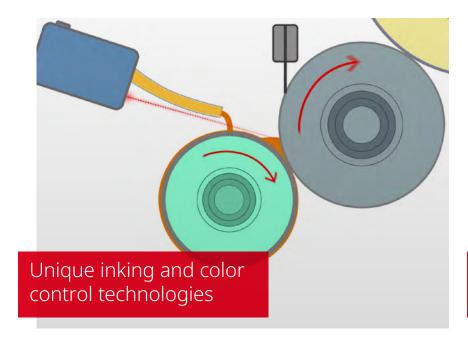
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Benefits and features 4 - 5





- Exclusive Ink-on-Demand (IoD) configuration working with minimum amount of ink in the print unit. Solution for BOBST inline flexo presses using Pantone Matching System spot colors
- Unique closed-loop color control DigiColor solution for inline DigiFlexo presses using one**ECG** Extended Color Gamut printing.

> WATCH IOD VIDEO

> WATCH DIGICOLOR VIDEO



- 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
- Remote Internet services

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Specifications - Measurements





3

1	MASTER M5	
	2 m	6.56 ft*
2		
	3 m	9.84 ft*
3		
	11 m	30.09 ft*

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^{*}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.

Specifications - Technical information



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

	Full servo
3.175 mm	1/8 in
	Unlimited
139.5 - 609.5 mm	5.5 - 24 in
305 - 609.5 mm	12 - 24 in
370 mm	14.5 in
430 mm	17 in
530 mm	21 in
200 m/min	660 ft/min
1395 mm	54.92 in
1000 mm	39 in
1000 mm	39 in
	139.5 - 609.5 mm 305 - 609.5 mm 370 mm 430 mm 530 mm 200 m/min 1395 mm 1000 mm

^{*}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 - 17 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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Specifications - Technical information



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
Coupon: Combo 2 layers	Available
Coupon: QN3/5 layers	Available

Inking and color control technologies

Ink-on-Demand (IoD)	Available
DigiColor	Available

Printing

Sleeve type print unit version			Available
one ECG 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

Unit that separates the liner from the self-adhesive material to allow printing on the adhesive. The adhesive printed section is dried before being re-laminated. Special low friction bars for surface-sensitive materials.



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
- Coupon QN3/5: 3 to 5 layer booklet labels

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Silk screen

Exclusive screen security and decoration effects.

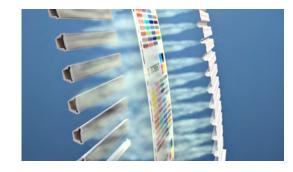
- High opacity white
- Special high gloss varnish
- Unique 3D effects
- Braille and tactile effects



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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Related products





Smart DigiMount

- Fully automated flexo plate mounting operations with digital quality and consistency for print sleeve presses
- Automated quality control, with HD cameras and servo assisted plate mounting adjustment
- Plate mounting accuracy up to 0.05 +/- mm, repeatable and consistent at each mounting
- Suitable for sleeve print cylinders. Repeat 254 813 mm -10 - 32 in
- Fully chambered workspace for ambient light variation isolation and consistent plate recognition

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The digital world of printing

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. Various levels of customizable DigiFlexo Automation are available.

DigiFlexo Automation features:

- Minimum waste at start-up

Product

QuickCut

- The most consistent printing and converting quality digitally controlled and adjusted at any speed
- Very low cost per job using analog plates half of the print and flexible die plate cost for most jobs
- User-friendly operation does not require highly skilled operators thanks to DigiFlexo Automation
- Consistency in quality and performance. Independence from operator skill

Benefit

- Comparable costs with digital printing in very short runs
- Comparable flexibility with digital printing: one minute for a full job change



PrintTutor Full digital registration control PrintTutor PLUS Automated digital printing pressure pre-set and adjustment during production DigiGap DigiGap Digital gap and pressure control for accurate die-cutting pressure Excellence ExcelPrint Automatic exchange of print cylinders, without stopping the press ExcelDie Automatic die-cutting exchange between two die-cutting sections ExcelCut Automatic flexible die exchange (only for semi-rotary die-cutting)

Automatic non-stop on-the-fly waste stripping path change

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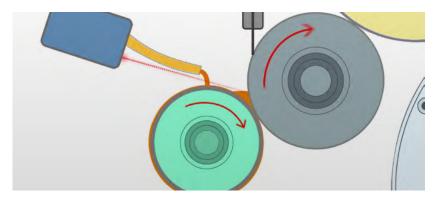
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Inking and color control technologies



Always at the leading edge of innovation, BOBST has developed revolutionary breakthrough solutions relating to flexo inking and color matching that help converters and brand owners to transform packaging production.



Ink-on-Demand (IoD)

IoD is a clean and smart inking system operating with minimum amount of ink per color. It eliminates ink trays and chambered doctor blades. The IoD technology is suitable and effective for all applications and run lengths. Its performance makes IoD print units the most efficient in the market. It is the breakthrough solution for BOBST inline flexo presses using Pantone Matching System spot colors.

- Optimal anilox cell ink refill preventing the ghosting effect
- Ink stability at high speed
- No ink leakage or flying ink droplets
- Minimum amount of ink in the print unit and full washout allow performing color matching pre-tests in a few minutes
- No ink contact with the hands of the operator
- Easy and fast color matching

> WATCH VIDEO



DigiColor

DigiColor is the first ever inline "closed loop" color system that enables digital color adjustment to the target Delta E values during printing, at any speed, on any substrate, with any operator. DigiColor is the solution for BOBST inline DigiFlexo presses using one**ECG** Extended Color Gamut printing.

- Inline closed loop color control avoids waste, non-conformities, and increases press uptime
- Consistent quality at any speed, on any substrate
- Ink quantity on demand, no ink pan, and no ink waste
- Color Delta E is consistent irrespective of the substrate type and physical properties
- Instant automatic correction of new color targets while the press is running
- A "digital twin" of the printed packaging is created for on-line remote validation. Full traceability and very fast time-to-market

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Best in class productivity

The **MASTER M5X** is a fixed configuration press optimized in terms of efficiency and output quality with the added benefits of short delivery time and competitive cost.

- 370 or 430 mm (14.5 17 in) web width
- 8, 10 or 12 print units
- 2 die-cutting units
- Short delivery time

Unique technology made affordable

- Automatic pre-register system
- ARC register control
- Rail system for accessories
- Combo laminator and cold foil kit on rail
- SnowBall Lite high speed waste stripping
- DigiFlexo ready
- one**ECG** ready

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_Driving the industry transformation



Bobst Firenze's Competence Center is one of BOBST's facilities worldwide dedicated to web-fed printing and converting technologies. Each is a center of excellence and all work in synergy to benefit from the multi-disciplinary know-how and experience derived within the Group.

Expertise and knowledge environment fully dedicated to customers' live and virtual demonstrations, operators' training and joint R&D new process development.

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REQUEST A DEMONSTRATION



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What is oneECG?

one**ECG** 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 one**ECG** Academy where printers can experience and test end-to-end turnkey solutions that flow from prepress 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.

WWW.BOBST.COM/ONEECG

Validation

\/

Open loop workflow

From job creation to final delivery, we collaborate in a full circle DigiFlexo architecture with our **REVO** partners for a smooth workflow deployment into your environment.





The REVO partners:















and converting









system

Delivery

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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.



Maintenance Plus

- Scheduled maintenance with BOBST certified technicians
- Preventative intervention, maximizing machine uptime
- Optimum performance over the equipment lifetime

> WATCH VIDEO

Approved parts and logistics

- BOBST Original and Certified parts, and consumables
- Quality assurance, and extended maintenance intervals
- Worldwide distribution, and full availability where and when you need it

> LEARN MORE

Machine upgrades

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

> LEARN MORE

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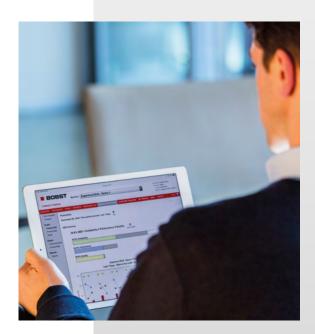
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_Switch on digital transformation

BOBST Connected Services ensures your business is ready for the changing world of digital manufacturing. Our range of apps and technical support brings full connectivity to your equipment and processes – providing you with a wealth of real-time data, analytical tools and expertise – helping you work smarter and more productively.



Helpline Plus & Premium*

- Remote access intervention, with BOBST technicians
- Expert support, eight hours a day, five days a week
- Maintain production, reduce callouts by 80%

Helpline Plus & Premium* AR

- Visual detail right in front of you, via headset display
- Machine data, CAD, and step-by-step troubleshooting
- In real time, guided by BOBST technician

*24/7 support in selected areas.

Connect Portal

- Easy-to-access portal to data, reports and analysis
- User-friendly interface
- Full connectivity and accessibility
- Access insights on the go with
 Mobile Portal from your smartphone

Remote Monitoring

- Real-time production and operating data
- Alerts and notifications when something happens
- Enabling instant intervention

Downtime Tracking

- Detailed analysis on machine performance
- Understand the root causes of downtime
- Enabling preventative intervention and improved productivity

> WATCH VIDEO

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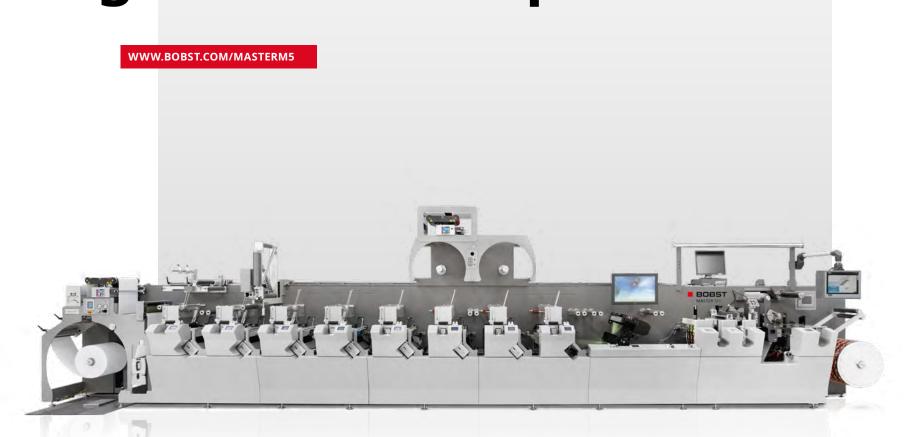
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The ultimate digitalized flexo press



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