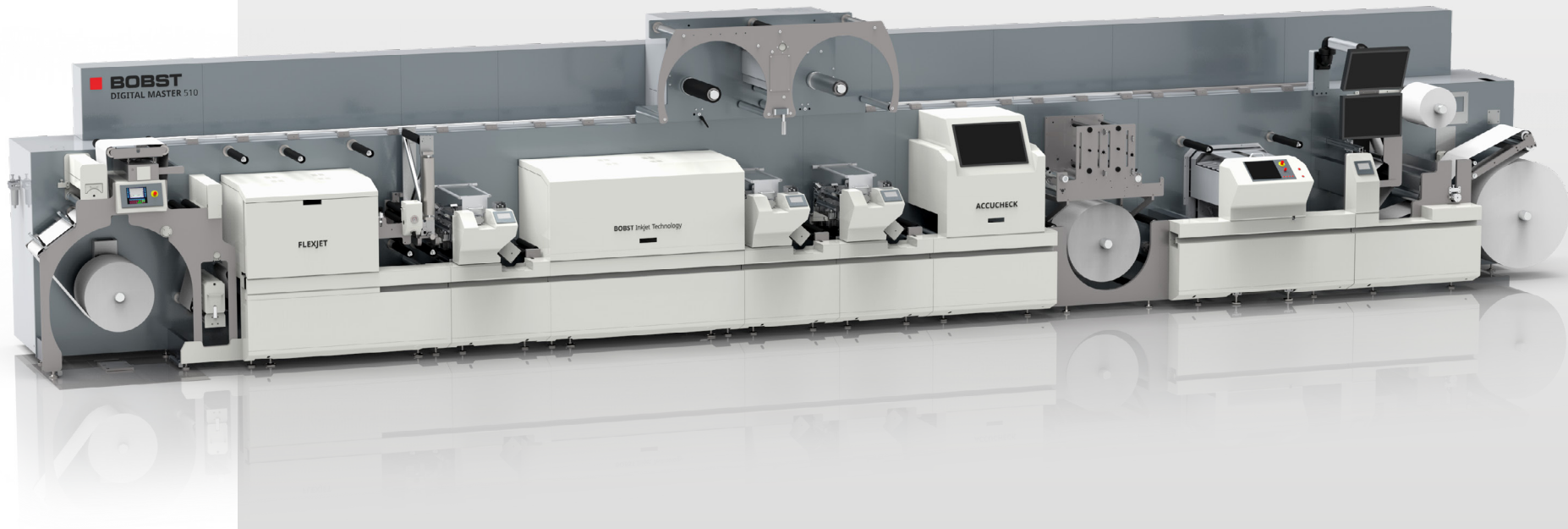


Modular and upgradable label press with quality control



ALL-IN-ONE, ALL-IN-LINE LABEL PRODUCTION

DIGITAL MASTER 340 | DIGITAL MASTER 510

At a glance



Integration and automation

The **DIGITAL MASTER series** sets a new standard for the label industry. Leveraging proven experience in flexo automation and recent innovative inkjet developments, this product family has been optimized to deliver exceptional productivity from short to long runs. Its **modular architecture** allows customers to design the machine they need and provides the opportunity to **upgrade on-site** at a later stage according to the evolution of requirements. Running at up to 100 m/min (328 ft/min) with the highest resolution of 1200 dpi, together with integrated maintenance automation features and quality control, the DIGITAL MASTER series guarantees an exceptional productivity and quality without compromise. Each print, embellishment and finishing module is digitally automated for an exceptional uptime and outstanding repeatability regardless of the operator's skills.

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340 mm print width

510 mm print width

100% modularity and upgradability

Exceptional productivity

Inline quality control system

REQUEST
CONSULTING

Print responsibly

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Creating value

BOBST innovations
are driven by customer
and brand owner needs

[> READ MORE](#)



Shortening production run lengths

Many factors are pushing towards reduction of the run length: SKU proliferation due to demand fragmentation and an increase of the offer linked to the rise of own-brand private label, changing face of retail towards direct to consumers channel. Being profitable in this environment is one of the main challenges for converters and the coexistence of different technologies is crucial to stay competitive.

Customization, versioning, personalisation

Labels can take almost any shape, texture and format. Special embellishing techniques and extended die-cutting capabilities create unique ways for brands to present their products, offering a high degree of customization and potential.

Digitalizing the label production

The availability of various technologies makes label production easier. Converters no longer need to use one technology only. They can optimize the entire production floor using all technologies and inkjet is for the coming 10 years the one to integrate in the printing production portfolio.

Sustainability

Label production needs to reduce its environmental carbon footprint. Capability to process optimized thinner and functional label materials – be they face or liner – associated with equipment efficiencies in terms of consumption of energy and consumables.

Faster time-to-market

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

Color control and brand image

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

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100% modularity and upgradability

BOBST

Shaping the future of label production



MORE INFO

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Configuration available in 2 web widths

Pure Digital

- Jumbo roll unwinder and rewinder
- Splice detector
- Web cleaner
- Web guide
- Corona unit
- Digital printing module - up to 6 colors + white
- Simplex reinsertion sensor
- Chilled roller
- Maintenance automation device
- BOBST ACCUCHECK - Calibration feature
- BOBST Digital Front End server
- BOBST FLEXJET module



+ Combine digital and analogue modules to design your own solution

Flexo modules



Delam and Relam



Hotfoil



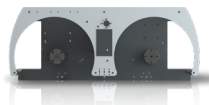
Rotary silk-screen



Digital printing module



Combo coupon



Coupon QN3/5



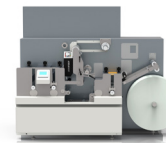
Laminator



Semi-rotary die-cutting



Rotary converting



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100% modularity and upgradability

Configure your own press

The perfect fit for your production floor and future-proof to protect your investment

From a digital-only press to an All-in-line label production, the modular architecture enables you to design your own configuration based on your production requirements.



GO TO THE CONFIGURATOR

**DIGITAL MASTER 340
DIGITAL MASTER 510**

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Infinite combinations



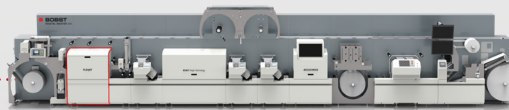
Pure Digital
Roll-to-roll
label production



Enhanced Digital
Increased application and
substrate versatility



All-in-One, All-in-line
End-to-end label
production



**Ultimate All-in-One with
FLEXJET**
Flexible and profitable
end-to-end production of
complex labels



**Advanced All-in-One,
All-in-line**
High versatility including
special applications



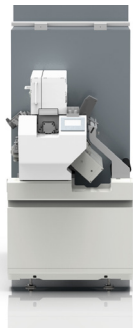
**Enhanced All-in-One,
All-in-line**
Ultimate flexibility and
versatility in end-to-end
label production

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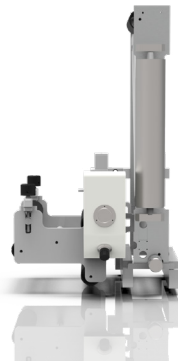
Full customization

Converters can combine digital and analogue modules in infinite configurations. **All modules available from inline flexo machines can be added over-time** and on-site, making your initial configuration a future-proof investment.



Flexo modules

- Fully automated flexo station that enables
- Spot and full color varnish
- Pantone colors
- Priming for extended substrate compatibility
- Using UV glue for cold foil or lamination
- Adding technical ink for specific applications (peal and reseal)



Delam and Relam

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



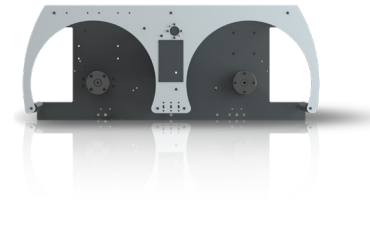
Hotfoil

- Enables foiling applications on difficult substrates precisely
- Performs Embossing and debossing in one single pass



Rotary 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



Combo coupon

- An accessory to create 2-layer label using the full web width
- Enables cold foil applications and UV and self-adhesive lamination

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Full customization

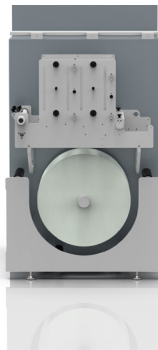
Converters can combine digital and analogue modules in infinite configurations. **All modules available from inline flexo machines can be added over-time** and on-site, making your initial configuration a future-proof investment.



BOBST FLEXJET

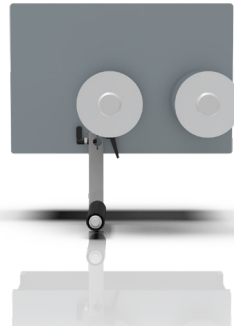
Module for digital printing for extended content labels such as multilayer, and other complex applications like sandwich printing, backliner, or glue-side printing applications:

- 1200x1200 dpi
- Printing at process speed
- Available with black printing only
- Integrated with BOBST workflow



Coupon QN3/5

- Needed for multi-layer labels production in a single pass from one single reel. (Up to 5 layers)



Laminator and cold foil

- Enables Cold foil applications, UV or self-adhesive lamination



Semi-rotary die-cutting

- Highly automated high-performing Semi-Rotary Die cutting (SRDC-HP) module, ideal for short runs where only die-cutting is needed, thanks to its short set-up time



Rotary die-cutting

Designed to host up to 3 die-cutting units:

- The first and second are for male and female die-cutting
- The third is for male die-cutting (female as an option), embossing and sheeting

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Short and long runs and a wide range of substrates and applications

- A **complete range of inline accessories** can be added to process a wide range of substrate types and applications
- Serialization or customization of products using **Variable Data Printing** for personalization, brand protection, legal compliance, limited editions and other high-value applications
- Expand application range with **two web widths**
 - **340 mm (13.5 in)** for daily label production
 - **510 mm (20 in)** to expand the application range and increase throughput
- Expand your label production with BOBST FLEXJET module:
 - Produce fully digital short runs of multilayer applications profitably in a single pass
 - Print digitally on glue-side and on liner without compromises on quality



Maximize output and minimize turnaround times and waste

- **Job preparation and management.** A single workflow and a single Human Machine Interface to manage digital and analogue processes
- **Reel change.** High hourly production capacity thanks to 1000 mm (39 in) jumbo rewinder and unwinder as part of the standard configuration. Automatic roll lifting system
- **Register.** Print Tutor, a mark-to-mark detection camera on every printing unit automates the register setup process and controls the length and side register during set-up and production even between digital and analogue
- **Pressure.** Print Tutor Plus for servo-controlled pressure systems
- **Digital printing.** No trade-off with an UV inkjet printing speed of 100 m/min (328 ft/min) at full resolution (1200x1200 dpi) available in up to 6 colors plus white
- **Flexo printing.** The “Flower” design of the printing unit makes colors changes easy and fast
- **Embellishment.** The extreme compactness of the digital module allows the operator to move the embellishment accessories along the entire press before or after the digital printing unit, changing the configuration in a matter of few seconds
- **Converting.** The semi-rotary die-cutting unit runs at a max speed of 160 m/min (525 ft/min) and performs die-plate change on the fly to avoid bottlenecks during production. The converting module includes QuickCut and Snowball to perform non-stop on-the-fly waste stripping path changes and to easily and effectively manage even the most difficult shapes

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Benefits and features 3 - 4



Highest inkjet print quality and color consistency at the highest speeds, job after job

- **Substrate optimization.** Corona, web-cleaning and web-guide by default on every configuration
- **Resolution.** 1200 x 1200 dpi native resolution at speeds up to 100 m/min with low ink consumption
- **Color gamut.** Achieve a very wide Pantone color gamut, with 6 built-in colors plus high opacity white, using BOBST oneECG technology, to address even the most demanding jobs
- **Quality inspection.** Based on industry leading technology, BOBST ACCUCHECK guarantees 100% inline quality check at full speed, also for embellishment; PDF check; color measurement accuracy down to 1 dE
- **Digital printing unit maintenance.** The press is equipped with an automated maintenance device to enable higher uptime, reducing waste and human error
- **Printhead calibration.** The calibration feature provides head stitching (X, Y, θ) measurements; color to color measurements and missing jet detection without human or service intervention



ONE press, ONE workflow, ONE operator, ONE supplier, ONE service

A press designed to be run by just **one operator**

- **High level of automation** available in each production step and maintenance routine
- A **single user-friendly interface** to manage both digital and analogue modules

Effective maintenance and serviceability

- Innovative **digital inkjet Technology developed by BOBST** reduces the daily start-up routine, requires very limited maintenance and allows easy and fast replacement at customer site
- **Maintenance automation device** enables automated cleaning, flushing and purging, as well as printhead protection (capping)
- **One single service point of contact** to install, maintain and upgrade all modules

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Technical features – Fully automated flexo modules



Automation in flexo printing

DigiFlexo Print Tutor

Automatic length and side register setup and control with a mark-to-mark detection camera on every printing unit, even between digital and flexo

- Drastic reduction in MR time and waste during set up
- The cameras will constantly check the register during production, allowing the operator to concentrate on preparing the next job

DigiFlexo Print Tutor Plus

Motorized pressure adjustment on each printing unit

- Reduces MR time and waste



Automation in waste matrix stripping

Snowball

Obliges the waste to rewind on a fixed point, to create a stable and reliable build-up of a "Snowball"

- Allows unprecedented stripping speeds even on difficult shapes

QuickCut

Automatically cut the material through the web width and an air-suction system will remove the waste matrix from the substrate to bring it to the matrix rewinder

- Non-stop production. The operator doesn't need to stop the press



Automation in die-plate change

Semi-rotary die-cutting unit

Enables automatic die-plate changing on the fly

- Non-stop production
- Reduced make-ready time from approx 2,5 min to 30 sec
- Automatic die-cutting register setting

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BOBST Inkjet Technology

Unique **most compact digital printhead technology developed by BOBST** containing all the mechanics for head alignment, the ink management, and the software steering each individual Fuji Dimatix Samba head integrated.

High Quality

Achieve superb print quality thanks to its native resolution of 1200x1200 dpi.

Produce more, deliver faster

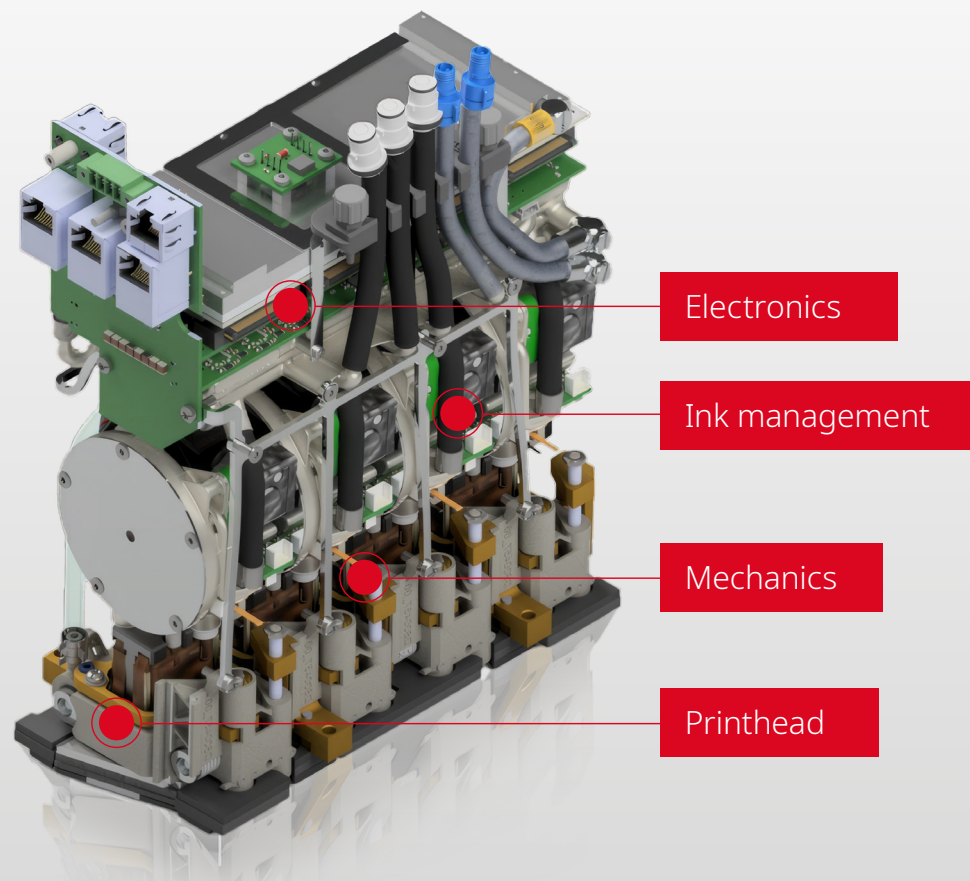
Printing at a speed of up to 100 m/min with 6 color configuration and up to 45 m/min with high opacity white.

Extended Digital Color Gamut

Printing up to 6 colors plus 70% opacity digital white being able to cover a wide range of the Pantone.

Compact & accessible print unit

4 Fuji Dimatix Samba printheads in every cluster. Each of them is fully autonomous with an easy and fast maintenance as each unit can be replaced with minimal manual intervention.



MORE INFO

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BOBST ACCUCHECK

Performance is nothing without quality control

As part of the one **INSPECTION** technologies developed by BOBST, **ACCUCHECK** is the cutting-edge quality control system tailored for the DIGITAL MASTER series, easing the machine setup and checking each individual label for quality, color, codes, text, inline calibration and register.

- **Reduce waste**
- **Increase productivity**
- **Fully integrated into press workflow**
- **Zero set-up time**



DIGITAL MASTER 340 DIGITAL MASTER 510

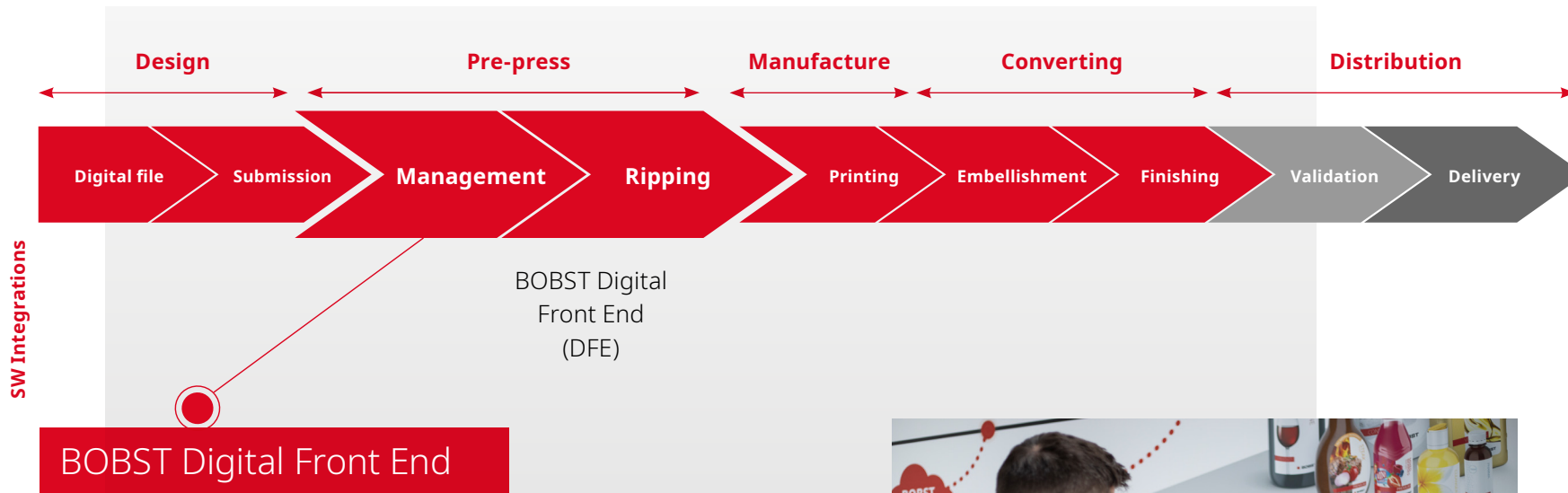
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End-to-end pre-press software

From the PDF to the final label, we collaborate with leading partners (ESKO, Pantone, Adobe and X-Rite) for a smooth and complete workflow deployment into your environment.



BOBST agile and easy-to-use workflow solution

BOBST Digital Front End (DFE) brings you a smooth and complete workflow, from PDF to final label. We've collaborated with expert partners to bring you a user interface that's fast and easy to use, making your pre-press process more agile and improving your productivity. BOBST DFE has been developed in-house with Adobe RIP and a PDF-based workflow. It brings X-rite color management as standard, digitalizing the whole process from acquisition and preparation through to management and production. Thanks to its open architecture, it allows integration in your existing workflow.



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Leading innovation in every drop

BOBST Thalia UV Digital Inks are designed to give converters total confidence when producing food-compliant packaging. Every component is selected to exceed today's requirements and anticipate tomorrow's rules, delivering trusted safety without compromising print quality or productivity.

Color configuration



BOBST Thalia UV Digital Inks set a new standard

Safety & compliance

Built for regulated markets, today and tomorrow.

- Compliant with Swiss Ordinance, EU 1935/2004, German Ink Ordinance. SVHC-free formulations fully aligned with EuPIA GMP
- Controlled migration for safe use in demanding and sensitive applications
- Audit-ready, meeting brand owner requirements and upcoming legislation

Performance & colorimetry

Engineered for speed, precision and color reliability.

- Printing at up to 100 m/min at 1200 x 1200 dpi
- Excellent adhesion on demanding films without primer*, and high resistance to abrasion, scratching, water rub and solvents

- Optimized color set for wide gamut performance and reliable spot color accuracy**
- Excellent color consistency over long production runs

Business enablement

Unlock new applications and accelerate qualification.

- Access to new verticals and applications beyond traditional UV inkjet
- Broad compatibility with substrates and finishing
- Support for high-value applications and complex constructions
- BOBST advanced migration modeling for predictable compliance and faster qualification

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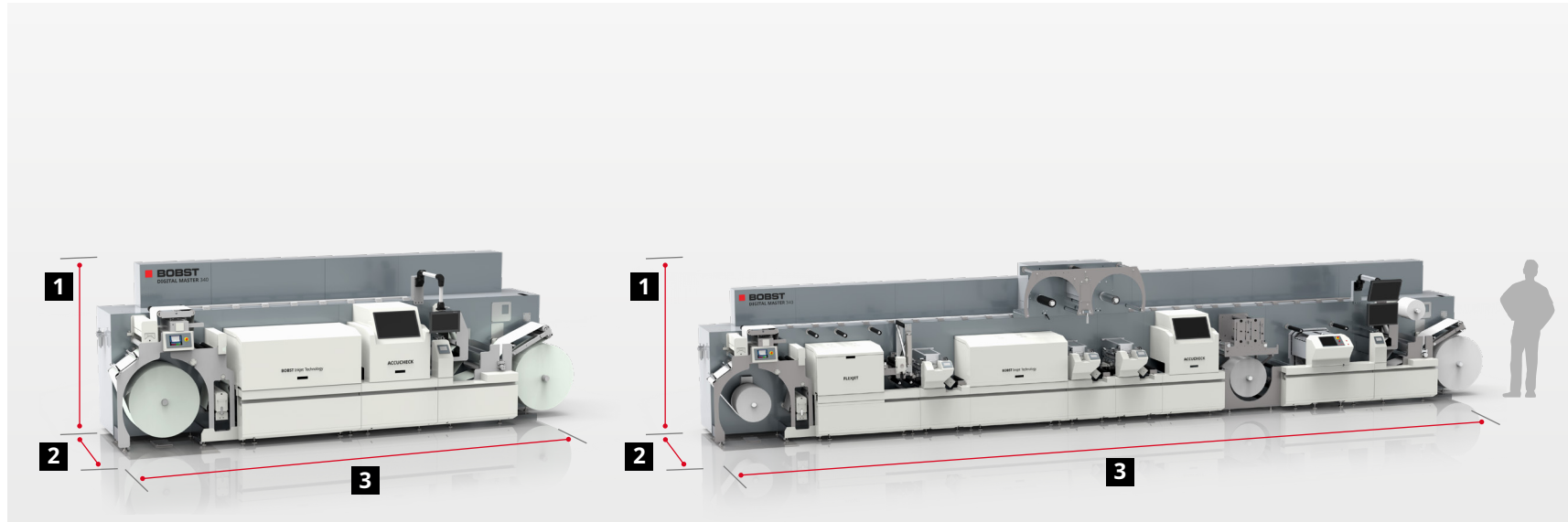
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*High variety of films tested without needs of primer

**Tested on a comprehensive set of spot colors widely used in the label and packaging industry





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DIGITAL MASTER 340 - Pure Digital

1	2.10 m	6.9 ft
2	2.25 m	7.4 ft
3	5.60 m	18.4 ft

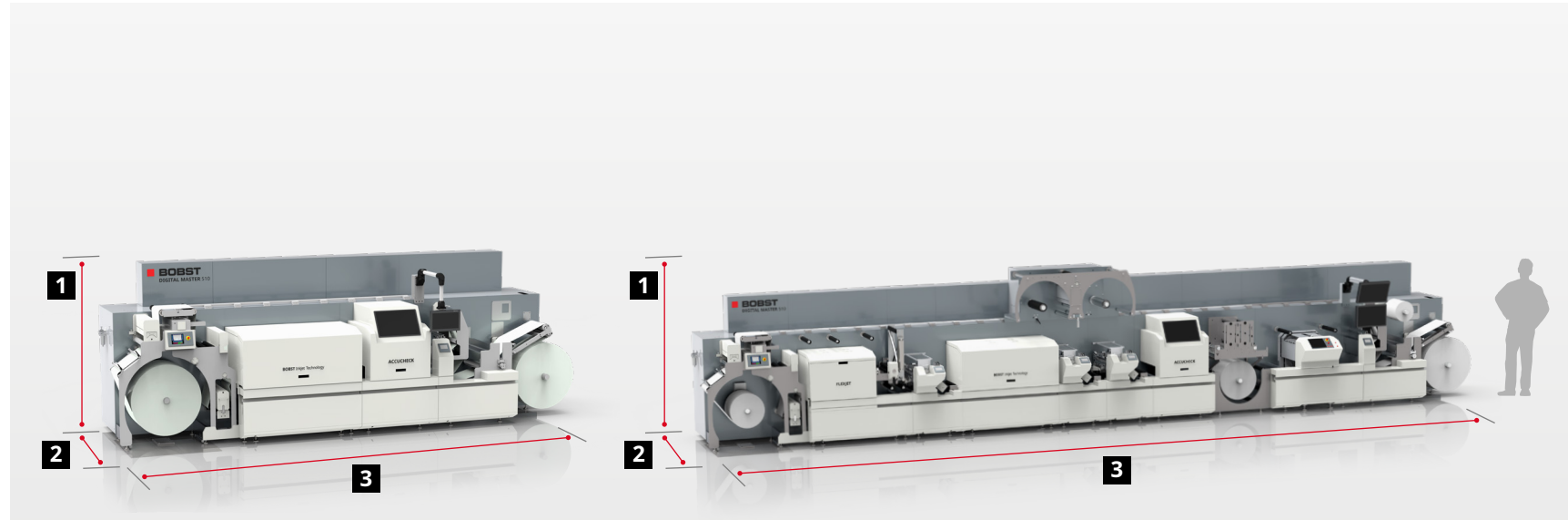
DIGITAL MASTER 340 - Ultimate All-in-One with FLEXJET

1	2.10 m	6.9 ft
2	2.25 m	7.4 ft
3	12.22 m	40.0 ft

*Length variable according to the specific configuration you build based on your needs.

Print responsibly

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DIGITAL MASTER 510 - Pure Digital

1	2.10 m	6.9 ft
2	3.05 m	10.0 ft
3	5.60 m	18.4 ft

DIGITAL MASTER 510 - Ultimate All-in-One with FLEXJET

1	2.10 m	6.9 ft
2	3.05 m	10.0 ft
3	12.22 m	40.0 ft

*Length variable according to the specific configuration you build based on your needs.

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By default

Capabilities	DIGITAL MASTER 340		DIGITAL MASTER 510	
Web width	370 mm	14.5 in	530 mm	20.9 in
Speed	max 100 m/min	max 330 ft/min	max 100 m/min	max 330 ft/min
Unwinding diameter	max 1000 mm	max 39 in	max 1000 mm	max 39.4 in
Rewinding diameter	max 1000 mm	max 39 in	max 1000 mm	max 39.4 in
Substrates	PSL (PP, PE, BOPP, PVC, PET, Clear on clear), Aluminium foil, film (white and transparent), paper, light folding carton, thermal paper coated and uncoated media		PSL (PP, PE, BOPP, PVC, PET, Clear on clear), Aluminium foil, film (white and transparent), paper, light folding carton, thermal paper coated and uncoated media	

Digital Printing

Imaging width	340 mm	13.5 in	510 mm	20 w
Print quality	1200 x 1200 dpi		1200 x 1200 dpi	
Print quality (optical)	2400 dpi		2400 dpi	
Ink coverage	max 16 g/m ²		max 16 g/m ²	
Colour configuration	max 6 + white		max 6 + white	
Inks	Mouvent UV-Inks		Mouvent UV-Inks	
Ink tank capacity	10 liters per color		10 liters per color	

Inspection and quality control

Calibration and quality inspection	BOBST ACCUCHECK	BOBST ACCUCHECK
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Digital print module maintenance

BOBST maintenance automation device	Contactless cleaning, dry-capping, purging, flushing	Contactless cleaning, dry-capping, purging, flushing
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Dimensions & Weight

Net weight	Variable configurations		Variable configurations	
Length*	5.60 m	18.4 ft	5.60 m	18.4 ft
Height*	2.10 m	6.9 ft	2.10 m	6.9 ft
Width*	2.25 m	7.4 ft	3.05 m	10 ft
Power consumption	Variable configurations		Variable configurations	
Air supply	Variable configurations		Variable configurations	

*Pure Digital configuration with unwinder – digital printing unit – rewinder.

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Optional modules

	DIGITAL MASTER 340		DIGITAL MASTER 510	
Flexo printing				
Imaging width	360 mm	14.2 in	520 mm	20.5 in
Drive	Independent servo drives		Independent servo drives	
Number of printing units	Unlimited		Unlimited	
Print cylinder repeat	139.5 - 609.5 mm	5.5 - 24 in	139.5 - 609.5 mm	5.5 - 24 in
Sleeve print cylinder repeat	305 - 609.5 mm	12 - 24 in	305 - 609.5 mm	12 - 24 in
Gear pitch	3.175 mm	1/8 in	3.175 mm	1/8 in
Web width			530 mm	20.9 in
Printing speed	max 200 m/min	max 660 ft/min	max 200 m/min	max 660 ft/min
Dryers	UV, IR / hot air		UV, IR / hot air	

Converting

Semi-rotary die-cutting

Drive	Independent servo drives		Independent servo drives	
Number of units	1		Up to 3	
Repeat	min 228.5 - max 431 mm	min 9 - max 17 in	min 279.5 - max 609.5 mm	min 11 - max 24 in
Matrix roll diameter	700 mm	27.5 in		
Mechanical speed	max 150 m/min	max 525 ft/min	max 150 m/min	max 525 ft/min

Rotary die-cutting

Drive	Independent servo drives			
Number of units	Up to 3			
Repeat	min 279.5 - max 609.5 mm	min 11 - max 24 in		
Mechanical speed	max 200 m/min	max 660 ft/min		

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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.



BOBST's new Competence Center for Labels and Packaging, in Florence, is a hub dedicated to the full label printing portfolio, including inline flexo, All-in-One and digital solutions.

BOBST's new Atlanta Competence Center is a state-of-the-art hub showcasing our inline flexo, as well as digital and All-in-One solutions for labels and flexible packaging printing.



MORE INFO



MORE INFO

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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

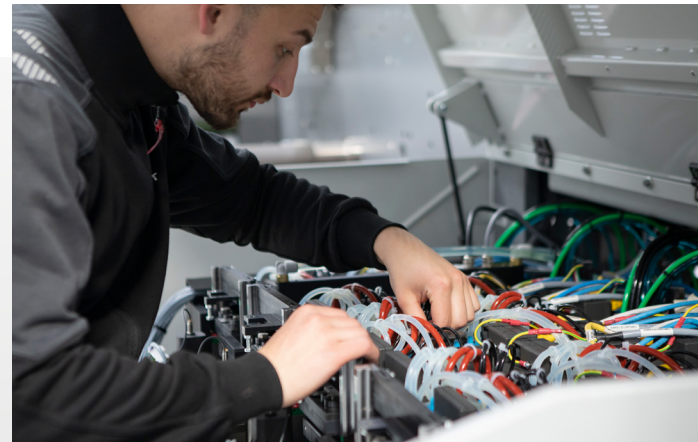
Remote support is complemented with augmented reality technology and predictive failure resolution incl. IoT capabilities

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



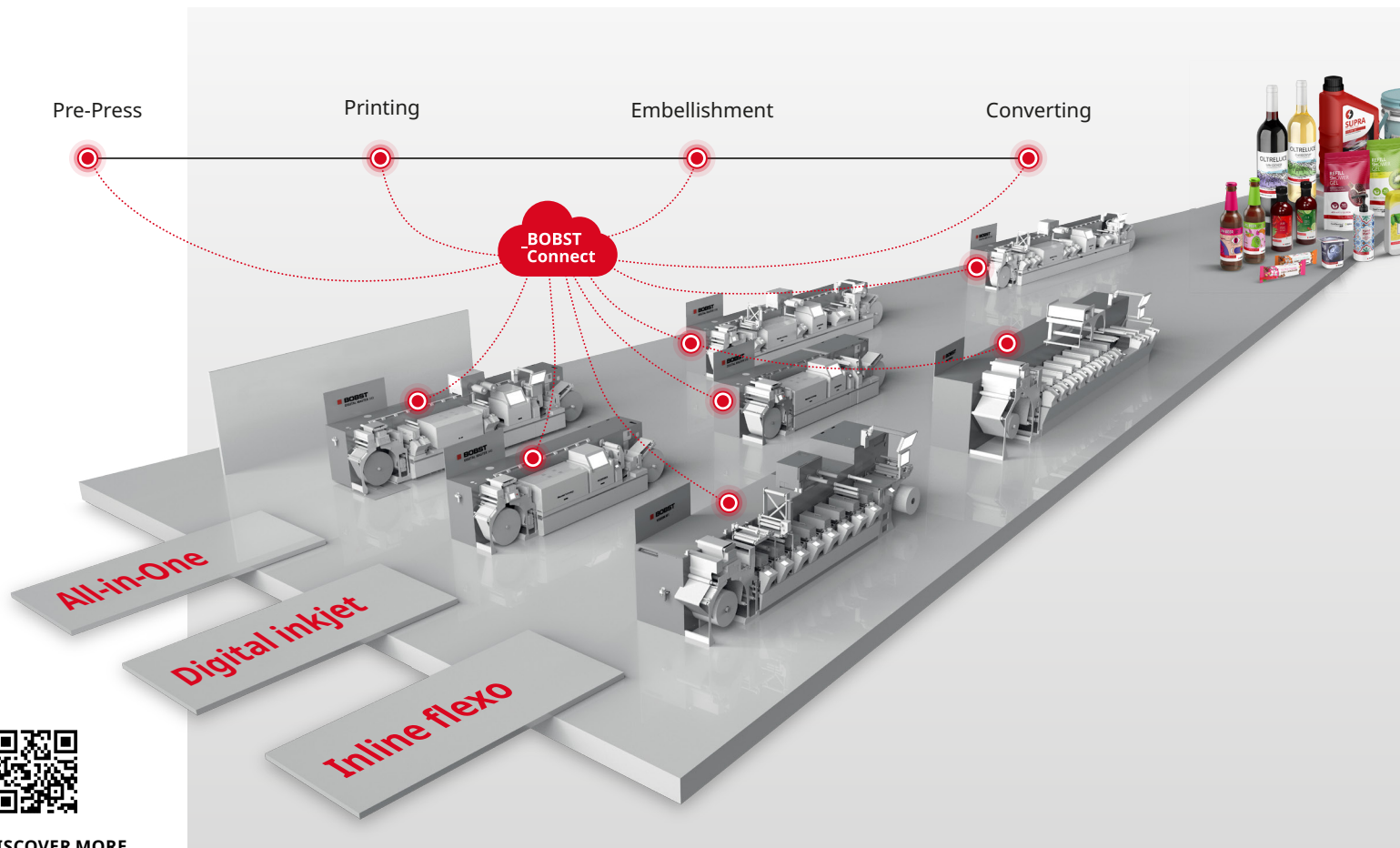
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Simplifying label production



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