Modular & upgradable label press
with quality control

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

DIGITAL MASTER 340 | DIGITAL MASTER 510

BOBST

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, guarantee 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.

100% modularity and upgradability

Exceptional productivity

Inline quality control system

DIGITAL MASTER 340
DIGITAL MASTER 510

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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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Shaping the **future of label production**

MORE INFO

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

+ Combine digital and analogue modules to design your own solution

Flexo modules

Delam & Relam

Hotfoil

Rotary silk-screen

Combo coupon

Coupon QN3/5

Laminator

Semi-rotary die-cutting

Rotary converting

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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 CONFIGURA-TOR

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

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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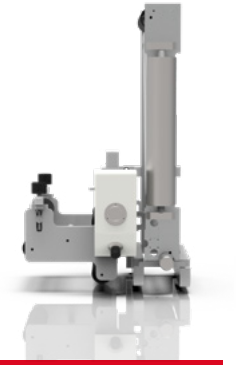
Full customization

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 & 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 & Relam

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

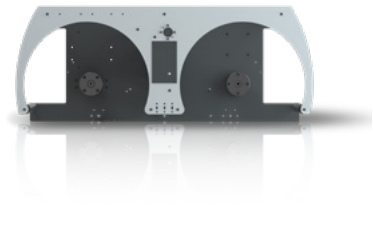
Hotfoil

- 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 & 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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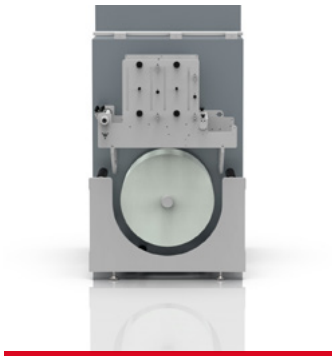

Coupon QN3/5

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

Laminator & 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

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 (1200 dpi) with low ink consumption
- **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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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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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 “snow-ball”

- 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

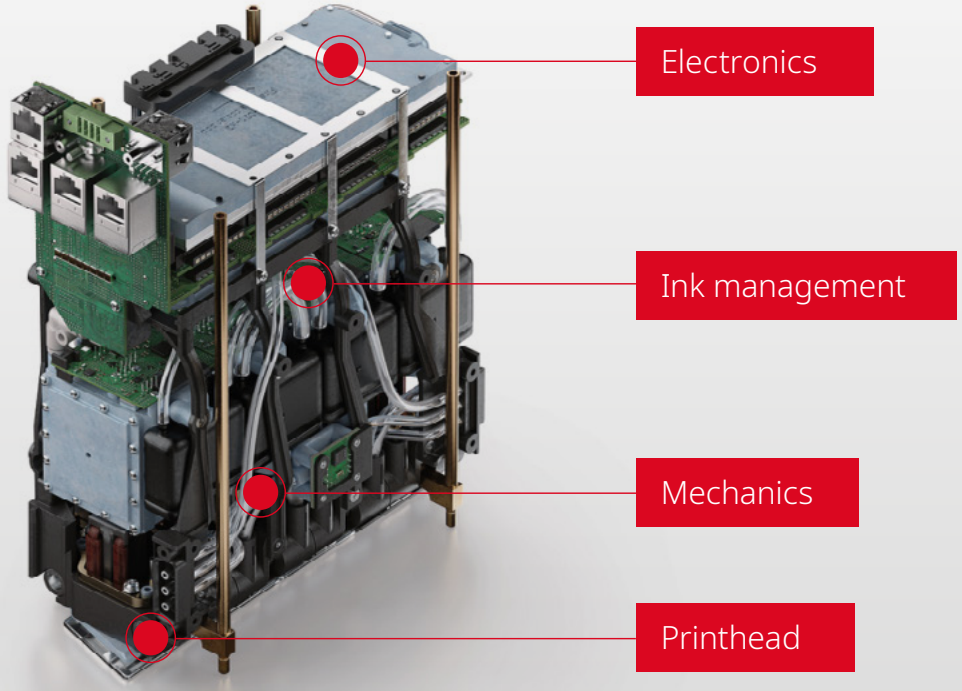
Unique **most compact digital printhead technology developed by BOBST** containing all the mechanics for head alignment, the ink management, and the software steering each individual Fuji Dimatix Samba head integrated.

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.



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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**

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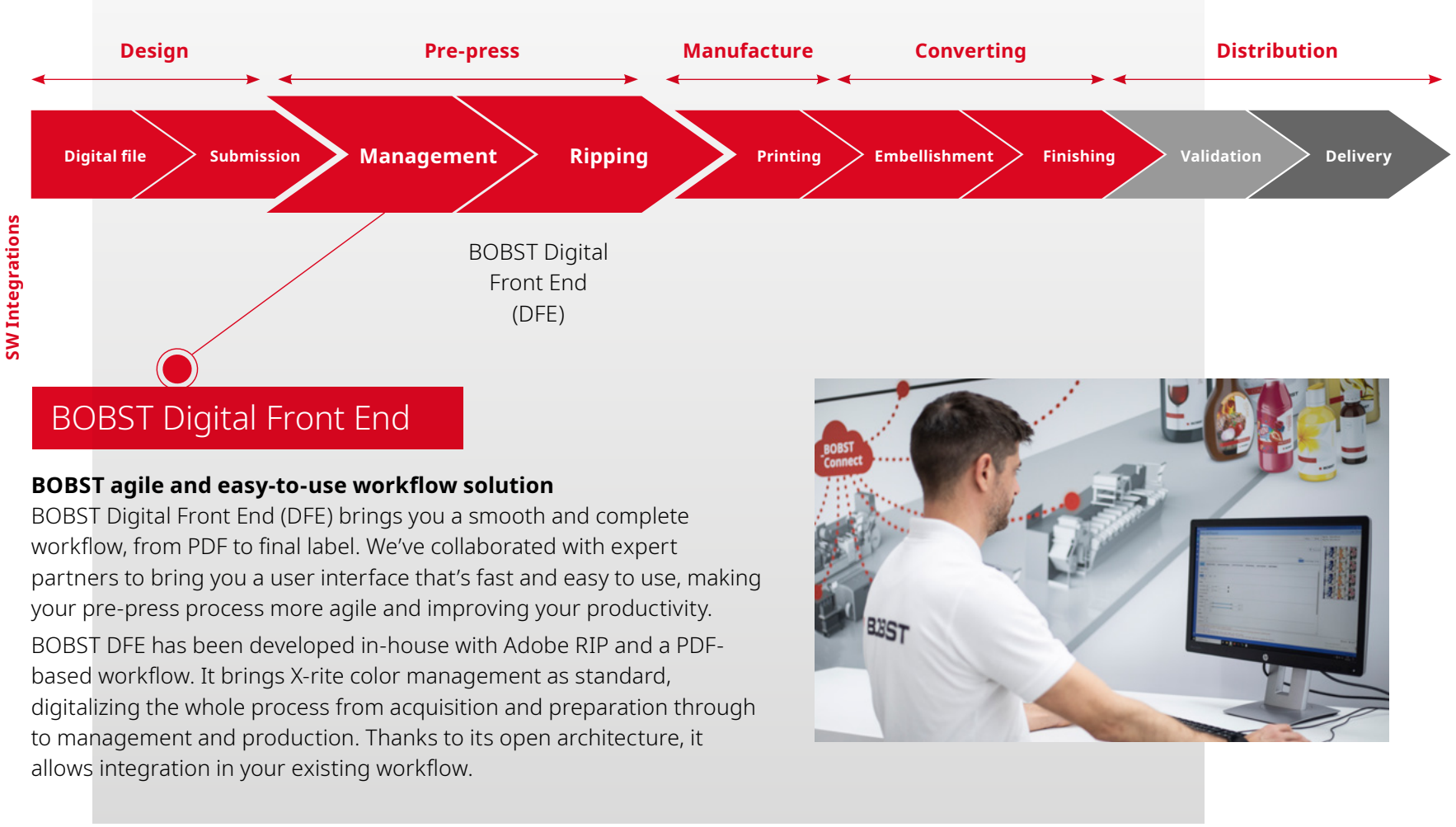
End-to-end **pre-press software**

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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Digital printing
UV inks

Personalized formula to achieve the best quality results.All our manufacturing processes and materials meet the requirements EuPIA guidelines.*

Color configuration

- **Cyan**
- **Magenta**
- **Yellow**
- **Black**
- **Orange**
- **Violet**

+

- **High opacity white**

Technical information & certificates

- **Pure white with 70% opacity** achieving full coverage running at a speed of up to 45 m/min into any transparent or metalized substrate, getting more flexibility without compromising your productivity
- We certify that all components used in the formulation of the CMYKW only products are listed on list A or list B of the Swiss Ordinance SR 817.023.21 regulation
- We do not intentionally add nitroamines, so such substances are not expected to be present in the inks
- Compliant with the European Directive 94/62
- Compliant with the CONEG requirement
- Compliant with the requirement regulation EU 1021/2019 regarding the Persistent Organic Pollutant
- Substances listed in the current list of SVHC are not present in our inks or below 0.1%

UV inkjet benefits

- High mechanical, chemical, water and light resistance
- Cold foil over-printable for metallic effects
- Optimized for high-speed printing
- High color gamut and color coverage
- Vibrant colors

* The manufacturing processes and materials do not meet the requirements EuPIA guidelines: Good Manufacturing Practice (GMP) Printing Inks for Food Contact Materials – March 2016

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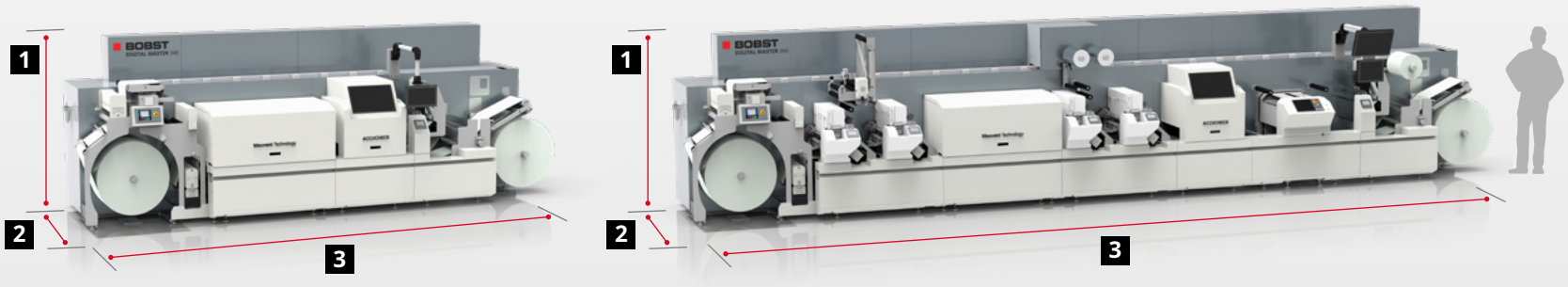
Specifications – Measurements DIGITAL MASTER 340



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 - Advanced All-in-One, All-in-line

1	2.10 m	6.9 ft
2	2.25 m	7.4 ft
3	10 m	32.8 ft

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

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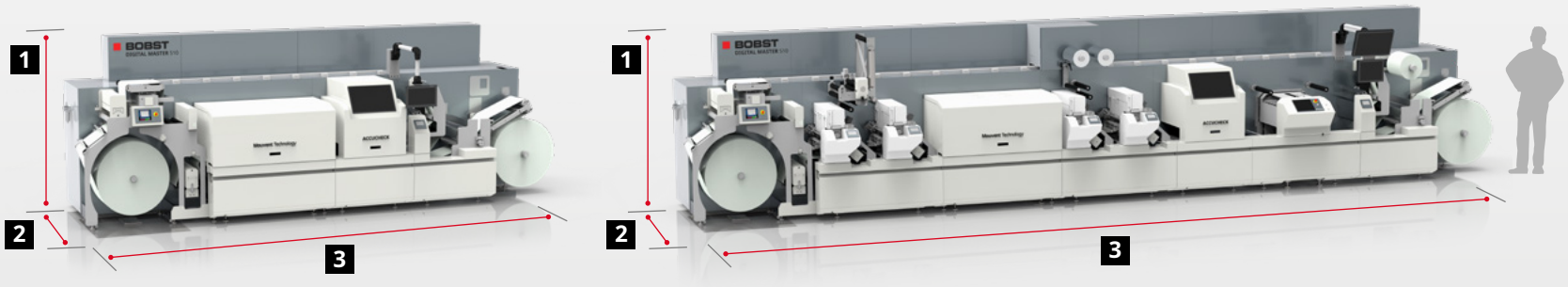

DIGITAL MASTER 510 - Pure Digital

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

DIGITAL MASTER 510 - Advanced All-in-One, All-in-line

1	2.10 m	6.9 ft
2	3.05 m	10.0 ft
3	10 m	32.8 ft

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Print responsibly

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By default

	DIGITAL MASTER 340		DIGITAL MASTER 510	
Capabilities				
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 & transparent), paper, light folding carton, thermal paper coated and uncoated media		PSL (PP, PE, BOPP, PVC, PET, Clear on clear), Aluminium foil, film (white & 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/m²		max 16 g/m²	
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	
Digital print module maintenance				
BOBST maintenance automation device	Contactless cleaning, dry-capping, purging, flushing		Contactless cleaning, dry-capping, purging, flushing	
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		

Independent modules possibly added to build your own press.

DIGITAL MASTER 340
DIGITAL MASTER 510

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REQUEST CONSULTING

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BOBST

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.

MORE INFO

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.

MORE INFO

Alpharetta, USA

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

MORE INFO

Itatiba, Brazil

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

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

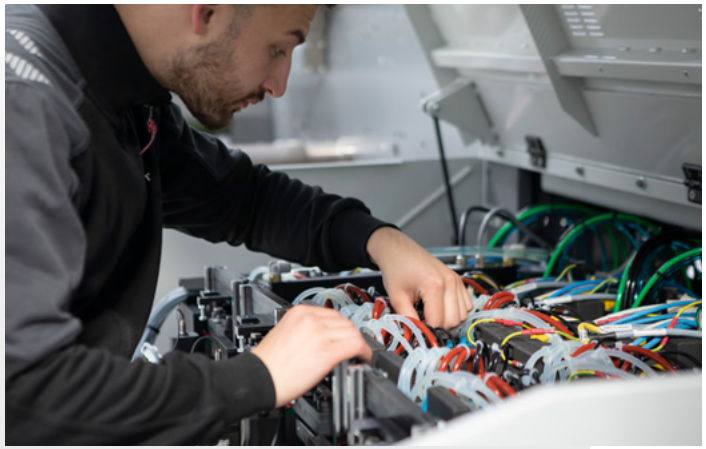
Installation & ramp-up support
A BOBST service engineer will follow your production ramp-up confirming that workflow and pre-press and machine are optimized

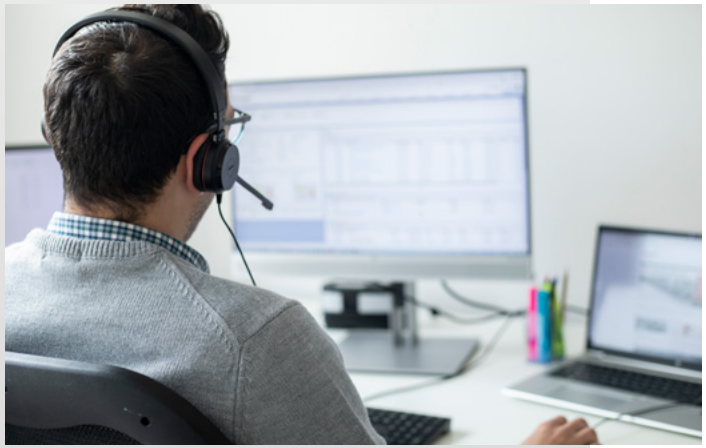
BOBST Global Customer Care Center
It provides support for operators to handle all service escalation across all disciplines

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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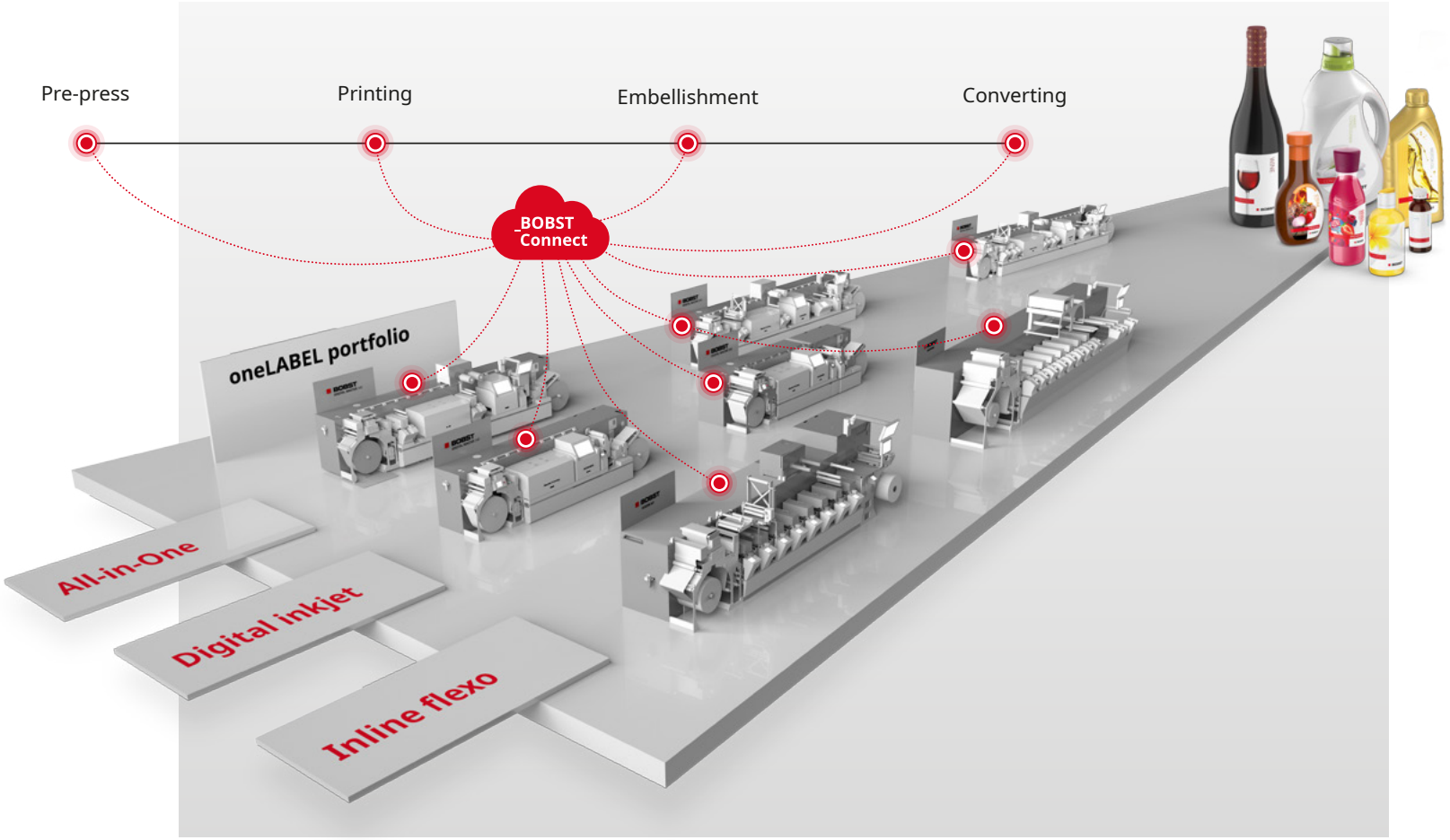
_Simplifying **label production**



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