Outstanding **flexibility** and **performance**

GRAVURE PRINTING

MASTER RS 6003

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_Leading
sustainability

The **MASTER RS 6003** is a highly flexible platform of gravure printing solutions. Available with either shafted or shaftless print cylinders and different levels of automation, this versatile platform handles a wide range of substrates, ink types and job lengths to address a very broad spectrum of applications and production requirements. Highly modular, it offers a further choice of exclusive options that deliver the highest productivity and print quality.

Excellent performance across substrates and applications

Easy & sustainable operation, **fast time-to-market**

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

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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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A host of choices

- Flexible configuration with either shafted or shaftless printing cylinders
- Different types of trolleys, print cylinders, inking systems, washing systems, winders and level of automation to optimally align the requirements of converters and their markets with the equipment capabilities and performance
- High quality printing at speed with both solvent-based and water-based inks
- Suitable for oneECG Extended Color Gamut printing
- Complementary finishing applications can be added in line with printing
- The press flexibility extends to the machine's styling and livery - standard or enhanced

Flexibility & repeatability

- Flexibility to match the most suitable trolley type with the required machine configuration - conventional interchangeable trolley system
- Standard Multi-Purpose Inking (MPI) or High Speed Meter (HSM) roller system. Both systems deliver repeatable printing set-up and consistency under all printing conditions and with all types of solvents and inks. MPI is especially suited where the use of market-specific varieties of inks is common
- Shaftless or shafted duplex winders with automatic splicing at production speed

Perfect web handling

- Renowned high precision web handing capabilities and performance with all substrates types, irrespective of their processing criticalities
- No wrinkle formation even with delicate materials
- Best-in-class sensitivity for idle and chilled rollers engineered and manufactured in-house
- Closed circuit chilled roller system for the entire material thickness range
- Fully automatic bi-directional reel splice at up to maximum production speed

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Operator-oriented solutions

– Machine in production with only two operators
– Easy to handle trolley solutions for fast and safe job set-up and changeovers
– Toolless change of impression roller sleeve
– Quick release mechanism for doctor blade replacement
– Optimum accessibility to all machine sections for cleaning and maintenance
– BOBST SPHERE Human Machine Interface (HMI) allows the operator to display and manage in real time the status of all significant process parameters
– HMI with common style and usability across all BOBST equipment
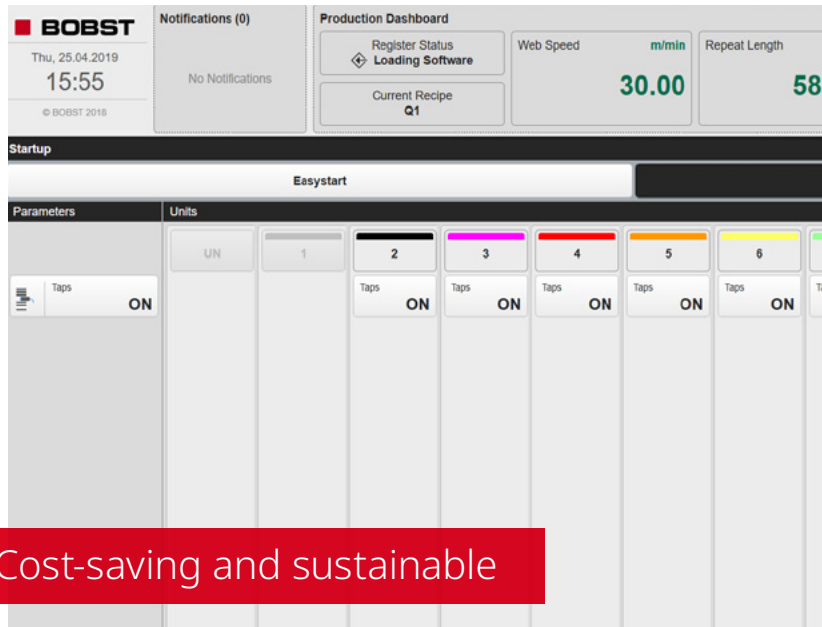

Exclusive drying technology

– Unique twin flow dryer for higher efficiency drying (impingement and floatation nozzles)
– Book-type opening of the hoods
– Ventilation fans driven by frequency converter
– Heat recovery system on each printing unit
– Different length drying chambers are available to best match specific production requirements
– The corrosion-resistant components of all dryers make them ideal for water-based applications

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Cost-saving and sustainable

– Minimized waste from TAPS and Registron® register control systems
– High efficiency twin flow dryers enabling shorter web path and low solvent retention on final product
– Ventilation regulated via inverter to reduce damper losses
– Automatic adjustment of the speed of ventilation air at machine stop
– Motorized exhaust recirculation damper to reduce energy consumption
– Winders' energy recovery solution
– Common DC-Bus for optimum balancing of electrical energy

Automation and connectivity

– Exclusive automation features ensuring process repeatability and required productivity
– Digital logging of machine parameters for each produced reels
– Programmed maintenance
– Downtime tracking and waste management
– Measuring of electrical energy consumption and improved efficiency

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Specifications – Measurements

1		
	5.9 m	19.5 ft*

2		
	29.5 m	97 ft*

3		
	5.8 m	19 ft*

*Values may vary according to the configuration.

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Materials handled

Substrates	Film, laminates, paper, aluminium foil
Inks	Solvent-based, water-based

Capability

Web width	800 - 1000 - 1200 - 1300 mm	31.5 - 39.4 - 47.3 - 51.1 in
Printing cylinder repeat	400* - 920 mm	15.8 - 36.2 in
Mechanical speed, max	up to 500 m/min	1640 ft/min
Web tension		30 - 350 N | 40 - 600 N
Standard dryer inside length	2.2 - 4.4 - 3.3 - 6.6 - 8.4 m	7.2 - 14.4 - 10.8 - 21.6 - 27.5 ft
Heating system		Thermal oil, steam, electric

* from 400 mm (15.8 in) to 450 mm (17.8 in) only with integral cylinders

Inline processes

Lacquering	Solvent-based, water-based, UV
Cold seal	Available

Products

Flexible packaging, beverages, pharma, labels

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Related products

TAPS
Fully automatic pre-register setting system. Perfect machine registration complete in a very short time at the touch of a button with minimum start-up waste. Fast and simple operation regardless of the operator skill.
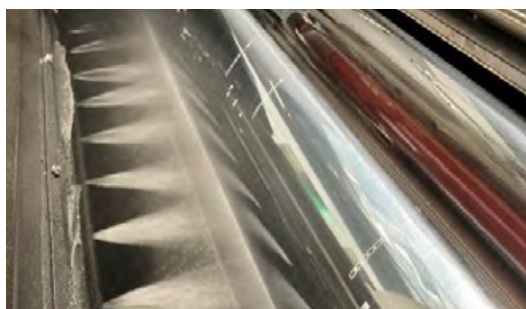

Registron® register control system
Exceptionally accurate and rapid print-to-print register control. Corrections are quickly and precisely done while machine downtime and waste are reduced to a minimum.
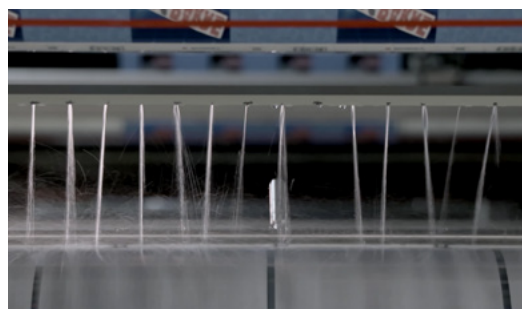

Twin Trolley
Service-type trolley that simplifies and speeds job preparation and changeovers. It can remain on-board or be removed from the unit after set-up, and enables to change only the print cylinder or the trolley carrying inking, print cylinder, and ink tank.

On-board washing
Special BOBST on-board washing system ideal for short runs. Reaching an incredible delta E of < 2 when switching from dark to light inks. Possibility of simultaneous washing of the stations. Automatic washing sequence. Optimized sequence for solvent consumption.

Cylinder pre-washing system
Print cylinders' simultaneous pre-washing at the end of the run. Controlled from the main panel and fully adjustable, the operation includes cleaning by solvent spraying and compressed air supply to thoroughly clean and drain the system.

Extended Color Gamut in gravure
BOBST one**ECG** for gravure printing presses is developed for Extended Color Gamut printing using solvent-based and water-based inks to achieve the same highest color stability, repeatability and print consistency worldwide.

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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

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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
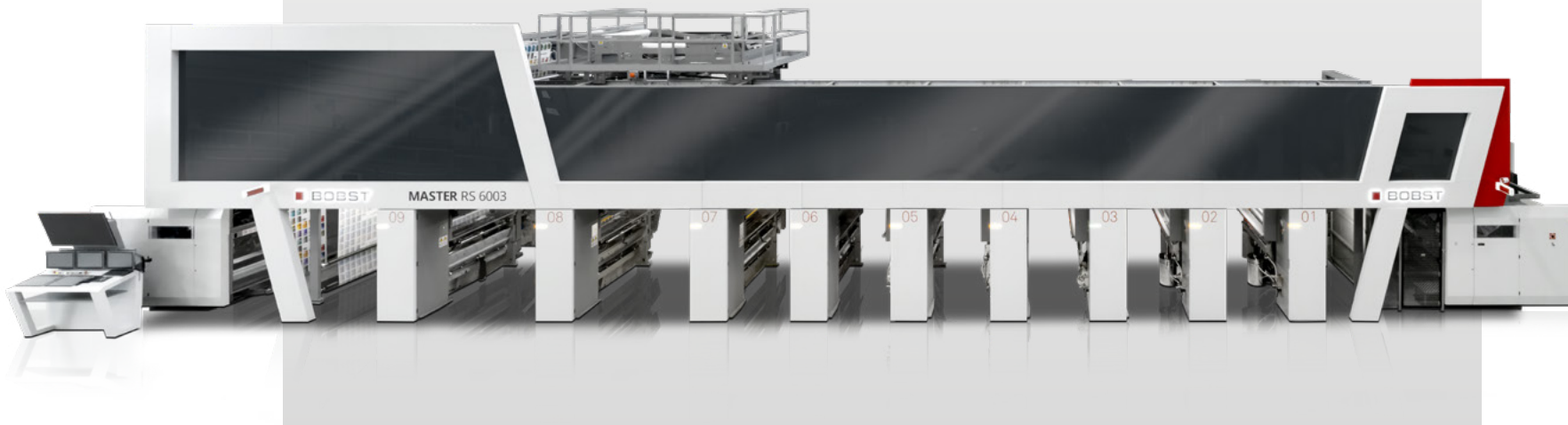–   Deliver overall resource efficiency

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Page 11/12

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