_Advancing
process consistency

EXPERT CI

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_Leading
sustainability

The innovative features of the **EXPERT CI** platform succeed in maximizing CI flexo process consistency. Using both solvent and water-based inks, it delivers exceptional productivity with stable and controlled printing results. Plus, its exclusive technical solutions make it a perfect fit for the requirements of one**ECG** Extended Colour Gamut printing process.

Exclusive innovations for unrivalled performance

Exceptional printing **flexibility**

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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Data is not binding.
Non-contractual pictures.
The manufacturer reserves the right to make modifications without notice.
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Adapting to your needs

– Printing on film, paper, laminates, aluminium foil and non-wovens in a wide web tension range
– Choice of printing systems:
  - solvent-based
  - water-based
  - Electron-Beam
– one**ECG** Extended Color Gamut printing
– Modular design and customized configurations for specific products and applications requiring added value enhancement in line with printing - downstream flexo or gravure printing units and turn bars for reverse printing

Heavy duty manufacturing for total reliability

– High mechanical rigidity and state-of-the-art drives and controls
– Unique anti-vibration design of the CI section for consistent print quality at high speed
– All press components designed for precision in the µ range
– Exclusive technologies eliminating process, technical and environmental variables to ensure consistency and repeatability run after run
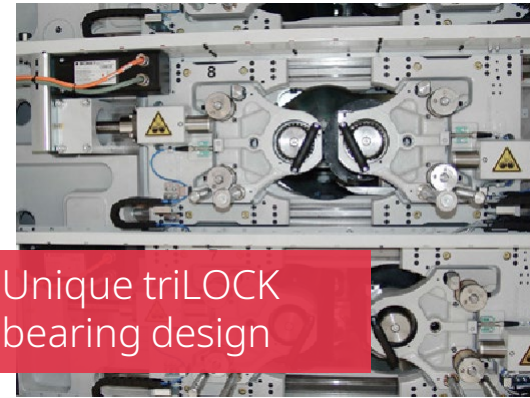
Unique triLOCK bearing design

– Bearing system with exclusive 3-point controlled high torque locking mechanism driven on two opposite linear guides
– Ensures consistent kiss print position of plate cylinders and anilox rollers
– Easier and faster operation by the operator

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Unrivalled print quality and productivity

- Fastest and easiest start-up job changes with smartGPS or smartSET exclusive systems for registration and impression setting
- Printing of finest dots and highest graphic resolution
- Fastest job changeovers, less than 6 minutes and 15 m substrate waste from last saleable product of job 1 to first saleable product of job 2
- smartFLO inking system and chamber doctor blade
- FSM intercolor dryers preventing substrate stretching
- one**ECG** for optimized results with Extended Color Gamut process with both solvent and water-based inks
- Fully automatic bi-directional reel splice at machine production speed
- High machine uptime for faster time-to-market
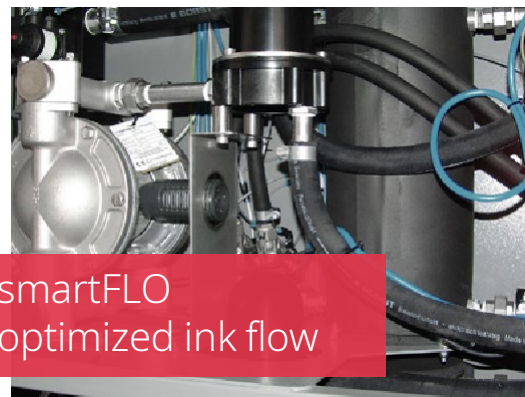
smartFLO optimized ink flow

- smartFLOW inking system and chamber doctor blade deliver predictable, stable and controlled printing results with all ink types
- Ensures best printing results with one**ECG** printing
- Prevents inconsistent ink metering from ink pumps
- Temperature control system for consistent ink temperature
- Controlling devices to minimize ink viscosity variations
- Reduction of errors and variables due to manual setting

A model of drying efficiency

- Bridge dryer combination of floating and impingement type jets for maximized efficiency
- Noise absorbing dryer frames optimized for turbulence-free air flow, reducing noise by 5dB(A)
- Motorized dryer hood for optimum access and very fast web infeed
- Modular design for adapting to the specific production requirements depending on ink systems ink coverage and production speed
- Higher drying speeds and improved efficiency with Full Surface Matrix (FSM) exclusive drying technology

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Higher speed drying with FSM Full Surface Matrix Dryer

– Significantly higher efficiency compared with one-slot drying system
– Air blowing over the whole surface of the substrate through hundreds of small jets
– Enhanced register accuracy by the web being evenly pushed against the CI drum

Sustainable, automated and connected

– Minimum waste of substrate and consumables at start up and job changes with smartGPS or smartSET exclusive systems for registration and impression setting
– Energy saving from efficient drying system and ventilation
– Winders energy recovery solution
– Accurate process automation for minimized waste, increased cost efficiency and easy manufacturing
– Connectivity features to enable access to production data from remote services
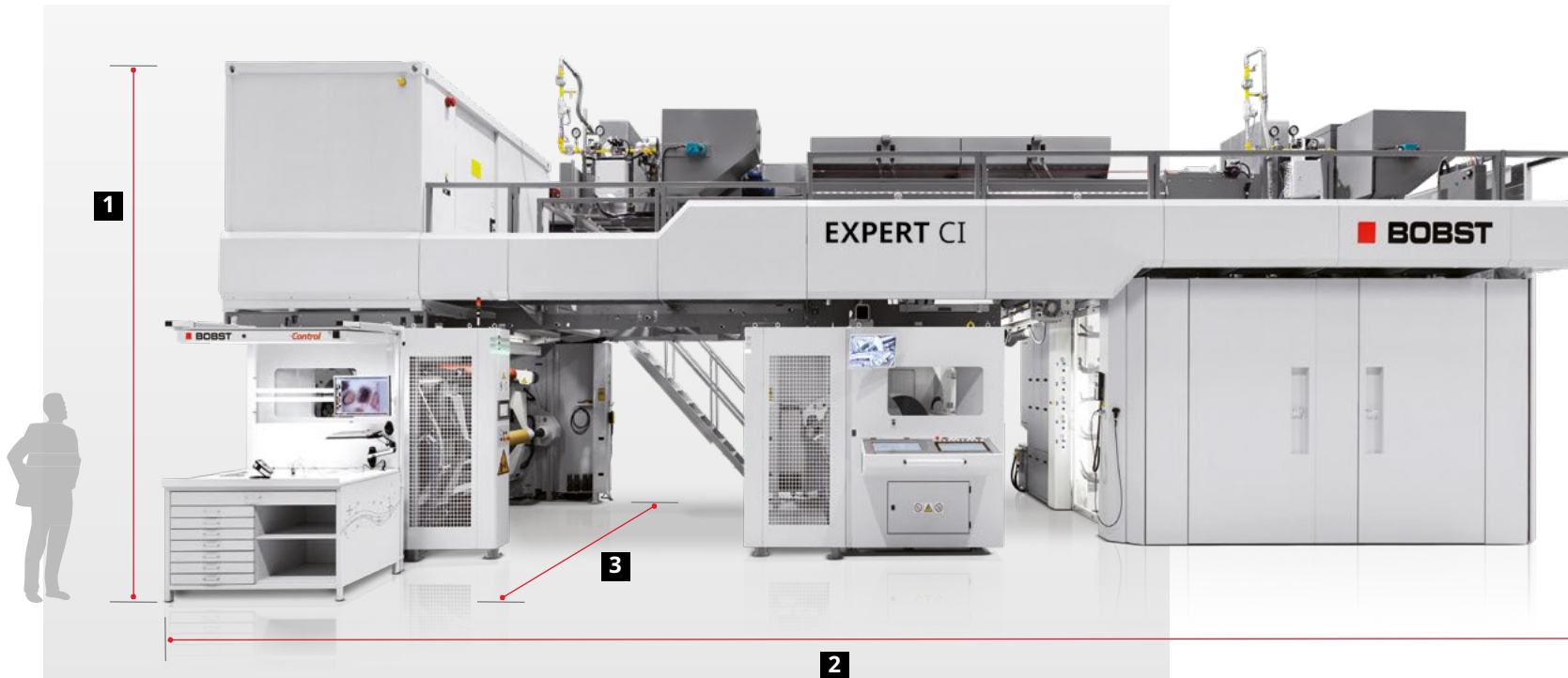– IoT including predictive maintenance empowering the operator to change wear parts before they fail

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Specifications – Measurements

1		
	5.5 m	18.04 ft*

2		
	16 m	52.49 ft*

3		
	5.5 m	18.04 ft*

*Measurements as per machine configuration featured above. Values may vary according to the configuration.

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Specifications – Technical information

Materials handled

Substrates	Film, paper, aluminium foil, laminates, non-woven
Ink systems	Solvent-based, water-based, electron-beam

Capability

Number of colors		8 - 10
Web width	1100 - 1300 - 1500 - 1700 mm	43.3 - 51.2 - 59 - 66.9 in
Print width	1050 - 1250 - 1450 - 1650 mm	41.3 - 49.2 - 37 - 65 in
Print repeat max	800 - 1200 mm	31.5 - 47.2 in
Speed	400 - 500 - 600 m/min	1312 - 1640 - 1968.5 ft/min
Automatic shafted winders, reel diameter	1020 - 1300 mm	40.2 - 51.2 in
Automatic shaftless winders, reel diameter	1020 - 1300 mm	40.2 - 51.2 in
Web tension	20 - 700 N	4.45 - 157.4 lbs

Product types

Food flexible packaging
Non-food flexible packaging
Beverages and liquid packaging
Bags and sacks
Labels

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Related products

smartGPS
The leading industry standard for registration and impression setting on CI flexo printing presses. Fully automatic off-line system with next to zero waste of substrate at start-up and job-change. It dramatically reduces machine downtime and costs, making even the smallest production order highly profitable. It is also instrumental in increasing the lifetime of high resolution plates by printing the real format, avoiding any distortion of dots.
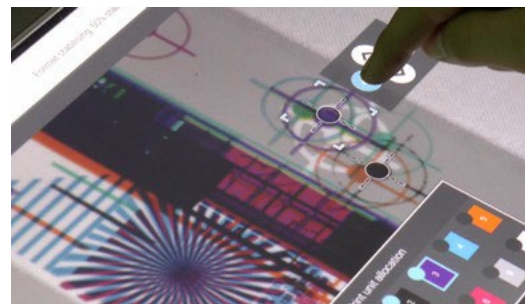
smartSET
A highly efficient system for semi-automatic on-press impression and registration set-up which considerably reduces waste and increases production time on CI flexo printing presses. Using existing micro dots, it does not require additional control marks. Being a non-optical system, smartSET works with all substrates including reflective ones.

colorCONTROL
A holistic approach to efficiently manage the time-consuming process of matching colours. It also includes expert analysis of the whole process and consultation. Includes hardware and software features.

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_Driving the
industry transformation

Bobst Bielefeld's Competence Center is one of BOBST's six 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.

– 5 staff, including one manager, pre-press and printing specialists
– Multiple presses fare available on site
– Standard or customized print and converting demonstrations, which can be either live or virtual
– Joint R&D and test activities with industry partners and other BOBST product lines
– Laboratory for GC analyses, tests of print hardware
– one**ECG** training

Bobst Bielefeld's Competence Center comprises a separate Training Center facility for customers and BOBST personnel with dedicated equipment and training specialists.

REQUEST A VIRTUAL DEMONSTRATION

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_Color consistency
guaranteed

Bobst Bielefeld is BOBST Center of Excellence for CI flexo printing. Its Competence Center is home to the one**ECG** Academy for wide-web CI flexo presses

The Center operates as a central facility for testing and continuous development of the one**ECG** process for BOBST and industry suppliers in an open-partnership system. The aim is to help CI flexo printing customers to exploit to the fullest the advantages derived from the implementation of the ECG process. The open-partnership system guarantees process consistency not only by the design and process control features of BOBST CI flexo presses, but through the seamless integration of all the elements that concur to an end-to-end process, from the design file through to the inks, printing and the final product.

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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

> **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

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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.
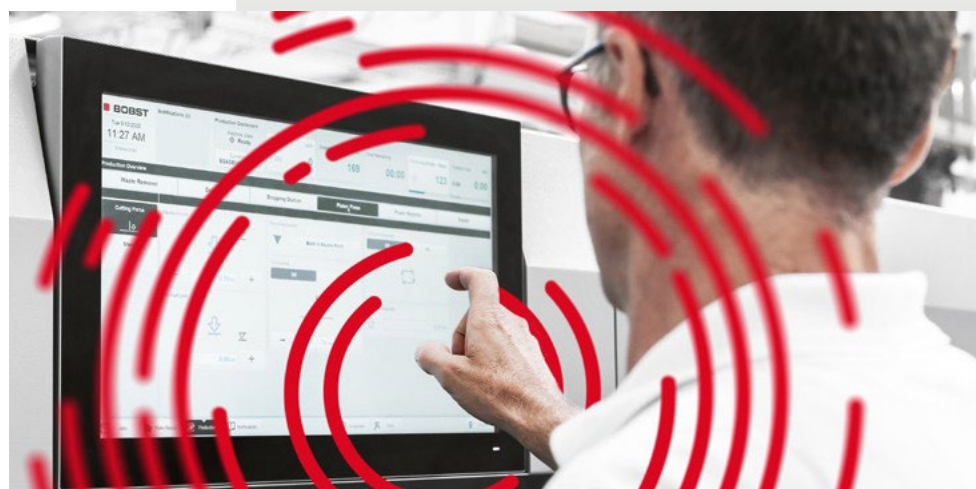
Performance analysis
– Production insights, including interaction of OEE components
– Identify and eliminate performance gaps

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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