

VELOX[®]

Velox IDS-BC™ Series

Direct-to-shape digital decoration high-volume production solution for straight wall beverage cans



- Unprecedented Decoration **Quality**
- Full Operational **Flexibility**
- Low **Total Cost of Ownership**
- Built-In **Sustainability**



Velox IDS-BC™ Series

Direct-to-shape digital decoration high-volume solution

Velox IDS-BC is the first industrial-level, direct-to-shape digital decoration solution for straight wall beverage cans. With speeds up to 500 cpm (containers per minute), Velox IDS-BC offers can manufacturers a cost-effective and reliable high-volume solution for marketing campaigns, focus groups, and other small-to-mid-scale offset decoration line runs. Delivering unprecedented printing quality, Velox IDS-BC is a robust, eco-friendly solution that increases operational flexibility, accelerates time to market, and lowers total cost of ownership (TCO) to expand opportunities and enhance profitability.

Benefits

Unprecedented Decoration Quality

Superior decoration features

- Photorealistic image quality
- Smooth gradients and halftones
- Wide color gamut
- Extremely vivid process colors
- Smooth surface texture (equivalent to offset printing)
- Accurate and consistent color matching

Unique enhancements

- Highly opaque white (greater than offset printing) for selective or full coverage
- Selective digital gloss and/or matte embellishments
- Seamless 360° decoration
- Chime printing



Unlimited customization and short time to market - Cities Basketball Tournament special edition

Full Operational Flexibility

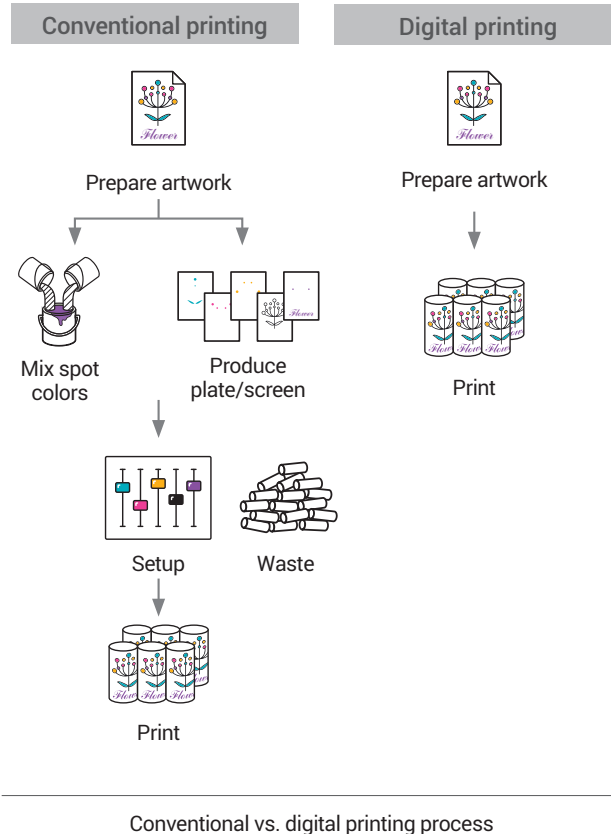
- Relief capacity and fewer short-to-mid-run constraints
- Near-zero setup time
- High decoration speed designed for high-volume production
- Unlimited run length (no minimum)
- Direct printing on bright cans with no prerequisites
- Automated processes (no print expertise required)
- Full repeatability

Low Total Cost of Ownership

- Virtually no calibration waste and setup time
- High capacity due to fast system speed and short setup time
- Reduced process costs (no ovens or post-treatment)
- No overproduction and inventory expenses (decoration-on-demand capabilities)

Built-in Sustainability

- Reduced waste (no plate preparation and errors, no spot-ink kitchen or leftovers, and virtually no calibration setup waste)
- No cleaning solvents
- Lower overproduction, shipping and inventory requirements



Unprecedented Decoration Quality

Velox IDS-BC takes straight wall beverage can printing quality to the next level. The high-resolution solution offers a wide color gamut with up to 14 process colors available at all times to enable high color matching, smooth gradients, halftones, and sharp texts. Ensuring photorealistic image quality for each and every run, Velox IDS-BC comes with opaque white ink that can be applied either as a full cover or selectively. This allows for printing of Pantone® colors on white-based areas and of colorful metallic effects resulting from direct printing of Velox's translucent colors on the metallic substrate.

A direct-to-shape solution leveraging digital technology for color printing, Velox IDS-BC maintains seamless 360° decoration capabilities. Enabling manufacturers to add a range of digital embellishments – including matte, gloss and tactile embossing – the cutting-edge solution prints on the chime to cover nearly all beverage can surfaces.





Full Operational Flexibility

Decoration printing has never been easier and more efficient with Velox IDS-BC. Designed for high-volume production, the groundbreaking Velox IDS-BC virtually eliminates setup time and reduces whole production-line downtime. Operating at extremely high speeds, the solution prints run lengths with no minimum quantity and facilitates frequent job changes. Given its short diameter changeover, the solution maximizes system utilization while supporting multiple can sizes. Velox IDS-BC high performance requires no operator expertise, and is equipped with automated prepress processes and job preparation software featuring web-to-print connectivity support. Carrying out on-demand printing, Velox IDS-BC accelerates time to market with full repeatability, while not compromising on quality and consistency.

Low Total Cost of Ownership (TCO)

The only digital decoration solution for beverage cans featuring high-volume production speed, Velox IDS-BC offers unique cost of ownership benefits to manufacturers. In addition to removing setup expenditures such as plate preparation, ink mixing, and calibration waste, the solution eliminates several process steps, as well as ovens and over-vernishing equipment, to slash capital and operating costs. Printing exactly what is required, Velox IDS-BC reduces inventory and related storage expenditures. A user-friendly solution that minimizes decoration processes, Velox IDS-BC requires near-zero setup time to maximize machine uptime, reduce short-run expenses, and deliver a fast return on investment.

Conventional printing costs



Ink



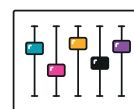
Labor



Production
waste



Plates/screens



Setup time



Drum cleaning

Velox digital printing costs



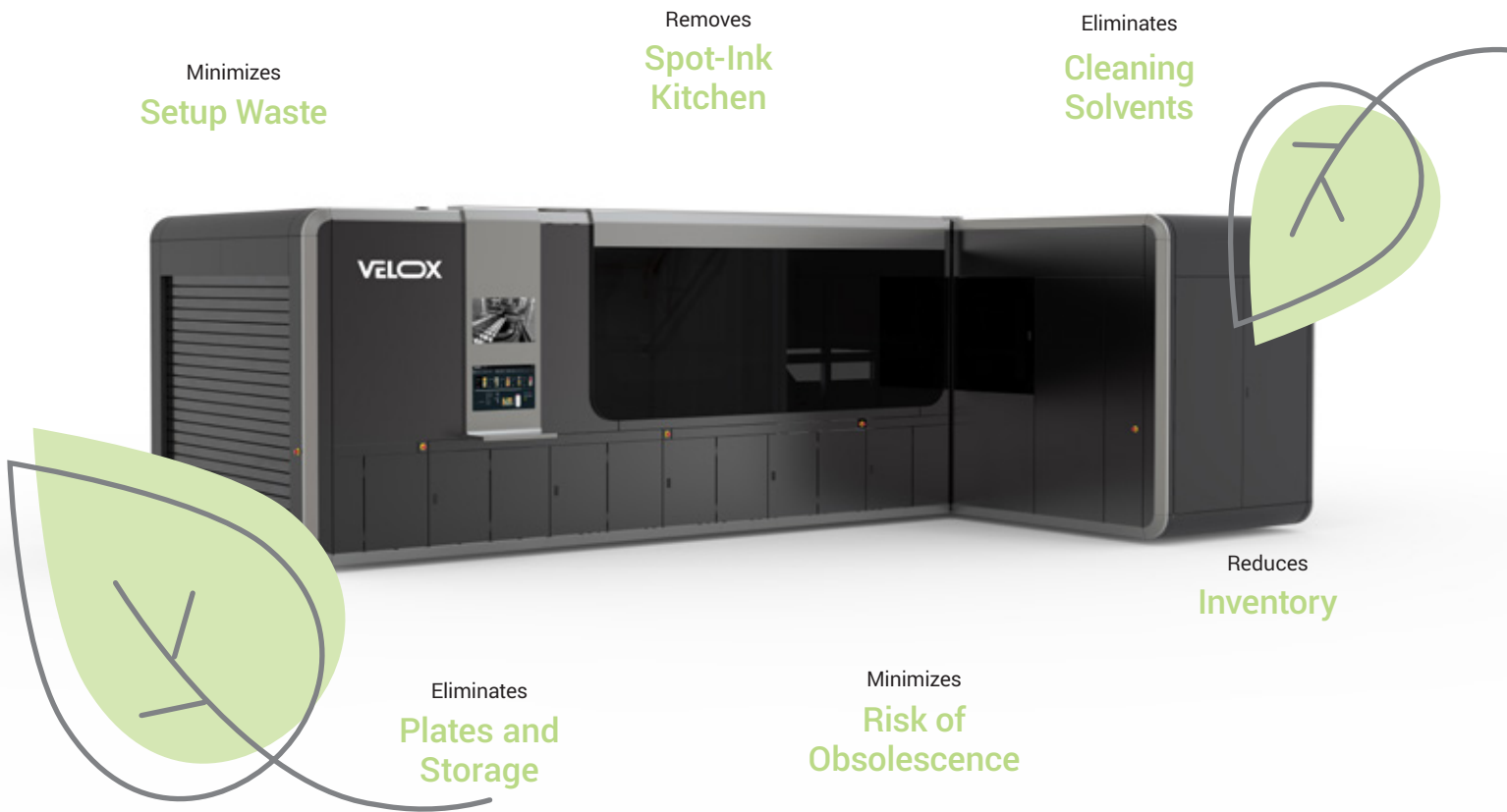
Ink



Labor

Built-In Sustainability

The Velox IDS-BC is an eco-friendly solution that meets today's most stringent environmental requirements. Leveraging a highly sustainable production process, the solution virtually eliminates machine setup – including wasted materials such as plate preparation and errors, ink kitchen mixing, ink leftovers, and pre-printing calibration of wasted can and drum cleaning solvents – to cut natural resource usage and waste. Further boosting sustainability, the Velox IDS-BC does not require ovens or coating equipment. And with decoration-on-demand capabilities, the solution reduces overproduction, shipping, inventory storage, and risk of obsolescence.



Major sustainability enhancements reducing the environmental footprint across the entire decoration process and beyond

Cutting-Edge Core Technology

Velox's proprietary direct-to-shape digital technology is based on two core technology elements – ink and system architecture – that deliver unparalleled printing performance.

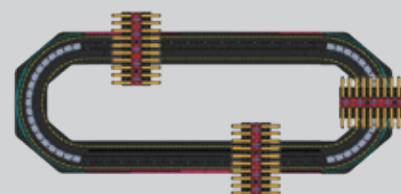
This end-to-end approach is essential to achieving a meaningful performance leap, reaching far beyond any other direct-to-shape digital printing technology. In addition to providing superior decoration quality and capabilities at high-volume production, Velox's technology enables a highly efficient and flexible production process and a significantly lower TCO compared to other direct-to-shape digital printing methods.



Adaptive Deposition Architecture™ (ADA) Technology

Velox's robust system architecture enables utmost precision and flexibility with inherent scale and expansion capabilities.

- System scalability – extremely efficient hardware utilization, with easy optional field upgrades to support higher production speeds and additional colors
- Process optimization – autonomous carriage mechanism that decouples dependency between print stations to enable a nonstop process regardless of time required at each station
- Accurate ink-drop deposition registration – improved image sharpness and color matching



Dependency-free process



Variable Viscosity Ink™ (VVI) Technology

Velox's specially developed and formulated digital UV inks enable high-quality decoration and excellent print properties.

- Per-pixel drop shape control – high ink-coverage efficiency without compromising on print quality
- Wide color gamut – exceptionally vivid and intense process colors
- Superb functional properties – high adhesion and abrasion resistance, as well as durability to necking and pasteurization properties
- Substrate- and surface-agnostic – outstanding printing performance on virtually any aluminum beverage can



Per-pixel drop shape control