

# Velox IDS-NC<sup>™</sup> Series

Mass production direct-to-shape digital decoration for necked beverage cans



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



# **Velox IDS-NC<sup>™</sup> Series**

#### Direct-to-shape digital decoration solutions for mass production

The Velox IDS-NC series is an advanced digital decoration solution for the mass production of necked beverage cans. It delivers high-quality printing with utmost operational agility, while maintaining a low total cost of ownership and enhancing sustainability. Offering a replacement for mass-production shrink sleeves and labels, the Velox IDS-NC series meets the high-end requirements of fillers, breweries and packaging wholesalers.

# Benefits

## **Unprecedented Decoration Quality**

Superior decoration features

- Photorealistic image quality
- Wide color gamut
- Accurate color matching
- Smooth gradients and halftones
- Sharp texts

#### Unique enhancements

- Highly opaque white for selective or full coverage
- Selective digital embellishments
- Seamless 360° decoration
- Printing on the chime and necked area

#### High-end appearance

- Eliminates typical sleeving artifacts and plastic feel
- Printing on bright or white-coated aluminum beverage cans
- Excellent printing properties High adhesion and abrasion resistance









#### **Full Operational Flexibility**

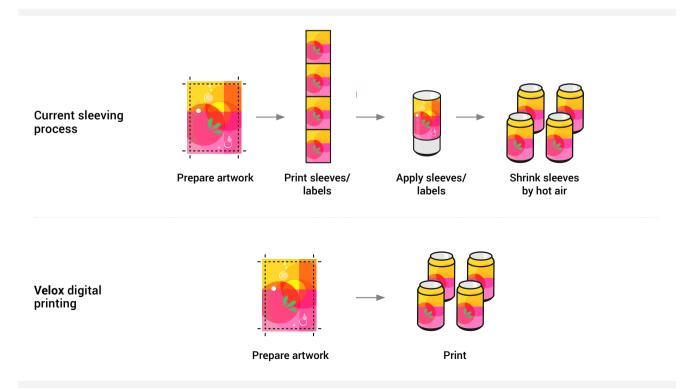
- Near-zero setup time
- Extremely high decoration speed
- Any run length No minimum required
- Process simplification Eliminates converting and application stations
- Short changeover between jobs
- Automated processes No print expertise needed
- Full repeatability

#### Low Total Cost of Ownership (TCO)

- Removes sleeves/labels raw materials and costs
- Capacity increase Due to high system speed and reduced setup time
- Decoration on demand Eliminates overproduction and inventory costs
- Eliminates production waste and setup time

#### **Built-in Sustainability**

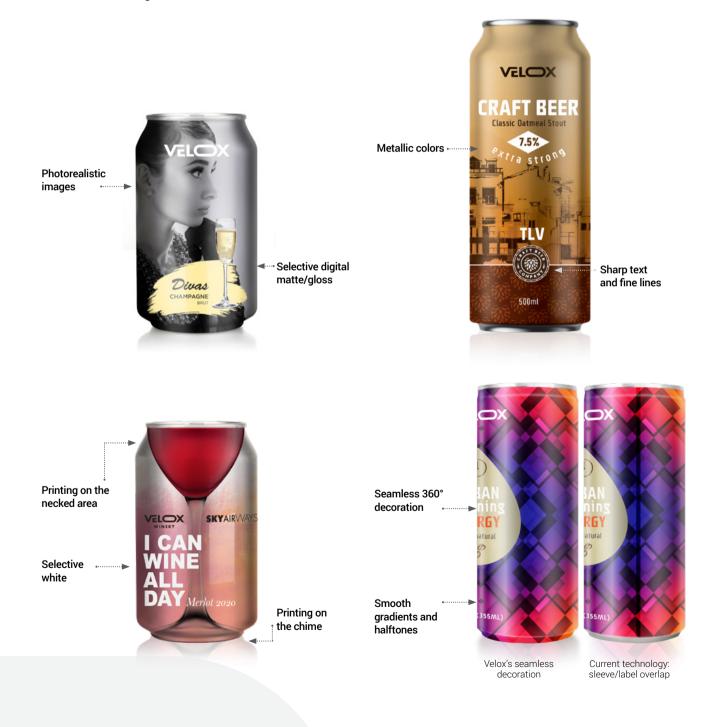
- Plastic savings Eliminates shrink sleeves and labels
- Reduced waste No shrink sleeves/labels production scrap
- · Less overproduction, shipping and inventory



#### **Unprecedented Decoration Quality**

The Velox IDS-NC series provides superior decoration on aluminum beverage cans, whether bright or white-coated. Offering a wide color gamut, photorealistic image quality and digital embellishments, Velox's technology takes beverage can decoration to the next level.

High-resolution print and up to 14 process colors always available on the systems ensure high color matching, smooth gradients, halftones and sharp texts. Velox's opaque white ink can be applied as full cover or selectively, allowing printing of Pantone® colors on white-based areas, while achieving colorful metallic effects on other areas where Velox's translucent colors are printed directly on the metallic substrate. The Velox IDS-NC series eliminates typical sleeving artifacts, such as seam distortion, "flowering", wrinkling and the "wet T-shirt" effect, and also allows seamless 360° decoration, including on the chime and necked area.





## **Full Operational Flexibility**

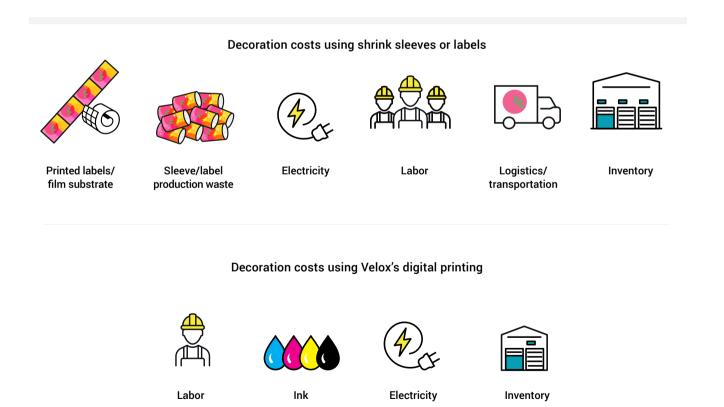
Velox's advanced digital decoration systems deliver mass production speed of up to 500 cpm (containers per minute) and operational flexibility that is attainable only with digital technology. The unparalleled speed and near-zero setup time between jobs allow on-demand printing, short time to market and easy transition between jobs, with no restrictions on run length.

Velox's direct-to-shape digital decoration greatly simplifies the printing process by eliminating sleeve and label converting and application stations such as slitting and hot air tunnels. The seamless connectivity of the Velox IDS-NC series to depalletizer, palletizer and peripheral conveying systems enables a modern, fully automated production floor. Diameter changeover is short, maximizing system utilization, while supporting multiple can sizes and lengths, as well as frequent job changes.

Designed for utmost efficiency, the Velox solution includes automated processes like prepress and job preparation software (with support for web2print connectivity), calibration, on-the-fly inspection and easy operation that requires no print expertise. High print quality and consistency are maintained throughout each job and across repeated jobs, with no compromise on speed.

### Low Total Cost of Ownership (TCO)

Today's sleeves and labels material and application are costly. In addition to removing those costs, the Velox IDS-NC series eliminates sleeves and labels production waste and job setup time. Overall production capacity is increased thanks to the high system speed and the time saved on setup and on sleeve/label handling and application – making it ideal for mass production of beverage cans. Moving toward decoration on demand, overproduction is eliminated, and inventory waste and costs are reduced. All this together translates to significantly lower OPEX and fast return on investment.

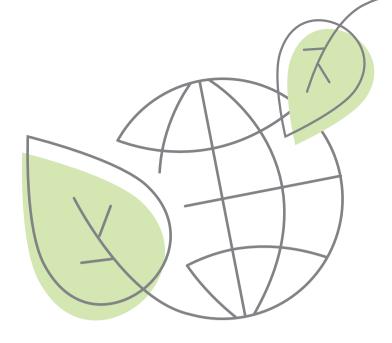


#### **Built-in Sustainability**

Velox's direct-to-shape digital decoration introduces an eco-friendly solution for today's demanding environmental requirements, using a significantly more sustainable process.

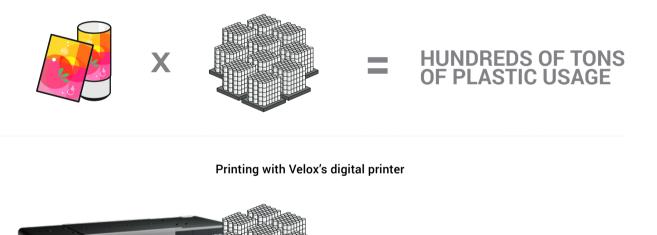
By eliminating the need for plastic shrink sleeves, labels, label liners and adhesives, as well as sleeves and labels production scrap, it dramatically cuts waste. Less equipment is needed throughout the decoration process, lowering energy consumption.

In addition, shifting to print on demand, enabled by the Velox IDS-NC series, reduces overproduction, shipping, inventory storage and risk of obsolescence.



GREAT PLASTIC SAVINGS

#### Printing shrink sleeves and labels



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

#### **Cutting-Edge Core Technology**

Velox's proprietary direct-to-shape digital technology consists of two core technology elements – the ink and the system architecture – both developed specifically to deliver unparalleled digital printing performance.

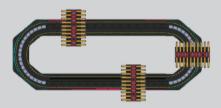
This end-to-end approach is essential to achieving a meaningful performance leap, reaching far beyond any other direct-to-shape digital printing technology. In addition to providing superior decoration quality and capabilities at high-volume production, Velox's technology enables a highly efficient and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



#### Adaptive Deposition Architecture™ (ADA) Technology

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 The autonomous carriage mechanism decouples the dependency between print stations and allows a nonstop process regardless of the time required at each station
- Accurate ink-drop deposition registration Improves image sharpness and color matching



Dependency-free process



# Variable Viscosity Ink™ (VVI) Technology

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

- Per-pixel drop shape control Provides 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
- Substrate and surface-agnostic Outstanding printing performance on virtually any aluminum beverage can



Per-pixel drop shape control