

Speed. Accuracy. Efficiency.

HIGH PRINT SPEED
Over 200 m/min

PRINT RESOLUTION
300–1200 DPI

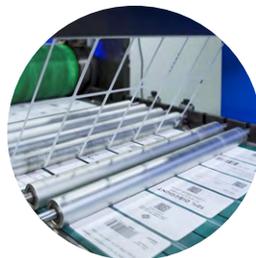
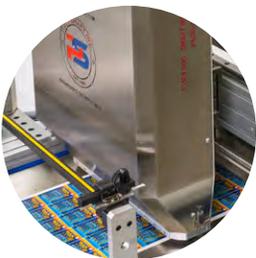
WEB WIDTH
380 mm max



HSDC-3500+

High-Speed Digital Converting System

The HSDC-3500+ is a high-performance digital converting platform engineered to handle precise, high-speed converting tasks across various substrates. It seamlessly integrates digital printing, die-cutting, and variable data personalization, catering especially to industries that require late-stage product customization and rapid job changeovers.





REDUCE COSTS

- › Low-cost ownership
- › Maximize throughput
- › Reduce cost of consumables



GROW YOUR BUSINESS

- › High placement accuracy
- › Wide variety of product types & sizes



INCREASE EFFICIENCY

- › Maximize uptime
- › Quick changeovers
- › Minimal maintenance



Potential Use Cases and Applications

- › **Late-Stage Personalization:** Ideal for applications such as personalized gift cards, loyalty cards, direct mail marketing inserts, or promotional cards.
- › **Variable Data Printing:** Perfect for campaigns needing multiple graphic designs combined with unique personalized content, like meal-kit cards, coupon vouchers, or event tickets.
- › **High-Speed Die Cutting:** Essential for high-volume packaging operations, label production, or retail packaging requiring precise, consistent, and high-quality outputs.
- › **In-Mold Label Production:** Ideal for labeling containers in food, beverage, cosmetic, and household product industries.
- › **Thin Film Labels:** Suitable for high-quality, precise labels used in pharmaceuticals, electronics, and consumer packaging.
- › **Multi-Process Integration:** Enables spot varnishing, cold foil application, UV lamination, or printing within a single pass, enhancing production efficiency.

Key Specifications

WEB WIDTH

- › Maximum: 380 mm

UNWIND UNIT

- › Maximum unwind/rewind diameter: 600 mm
- › Spindle size: 76.2 mm
- › Feature: The machine decelerates as it approaches the end of the roll to ensure smooth operation

DIE CUTTING UNIT

- › Web thickness range: 50 to 300 µm
- › Maximum die cutting width: 370 mm
- › Cutting length: 254–508 mm (8–16 oz)

MATERIAL COMPATIBILITY

- › Stock thickness: Capable of handling materials such as 9 pt stock, which is approximately 0.23 mm thick

OPERATIONAL REQUIREMENTS

- › Air pressure: 80 PSI
- › Power supply: Three-phase (3P) + Neutral (N) + Protective Earth (PE)
- › Power consumption: Approximately 10 kW (depending on specific configurations)
- › Machine weight: Approximately 3,500 kg

Integrated Technologies

SJ-365 DOD INKJET PRINTER

- › Print area: 330 mm, suitable for web personalization
- › Performance:
 - Maximum print speed: Over 200 m/min
 - Vertical resolution: 600 DPI
 - Horizontal resolution: 300–1200 DPI
 - Drop volume: 3.5 pL
 - Nozzles: 1776 (6 × 296)
- › Physical attributes:
 - Head width: 75 mm
 - Ink tank capacity: 2.5 L

UV DRYER

- › Functionality: Efficient curing system designed to dry inks and coatings instantly
- › Features:
 - Optimized output and energy usage
 - Typically utilizes plug-in modules with an output of 200 W/cm each
 - Comparable UV output to traditional three-lamp systems

VSC-1000 VISION INSPECTION SYSTEM

- › Capabilities:
 - Operates at speeds up to 120 FPS
 - Manages up to 8 camera inputs with 4 parallel channels

- Allows asynchronous management with real-time hardware
- Supports line speeds up to 180 m/min (600 feet/min)
- Provides real-time response

DELTA-X TRACKER

- › Capabilities:
 - Supports up to 16 tracking zones
 - 64 channels for sensors and trigger outputs
 - Manages up to 8 industrial printers (e.g., DOD Inkjet Printer, Zebra Label Printer)
 - Connects with up to 16 peripheral devices (e.g., inspection cameras, barcode readers, magstripe reader/encoder)

