

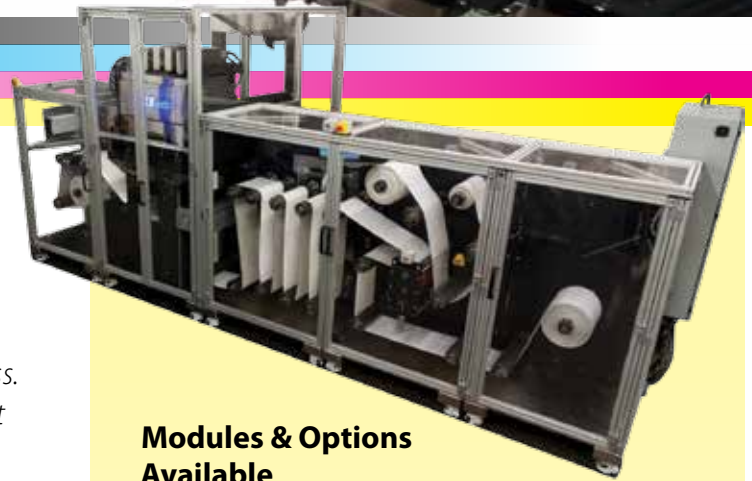


Product Overview

With its unique **DICE™** color inkjet technology, PPSI pioneered the use of high-quality single-pass inkjet printing as an upgrade to an existing flexographic press. Now the same reliable inkjet engine is available as part of a customizable and modular roll-to-roll printing system: the **DICEpress**.

DICEpress is a complete, servo-driven, inline converting system for roll-fed materials. At its core is the **DICE™** inkjet print engine, available with either repairable 400dpi resolution or high-speed 1,200dpi resolution printheads. Both types of printheads feature automatic head-cleaning and ink recirculation systems that ensure high nozzle-reliability, and all **DICEpress** systems are available with up to 6 colors, and the capability of printing variable data, barcodes and graphics.

The digital print can be combined with flexo, screen or gravure printing by adding appropriate print modules, to create a highly versatile 'hybrid' print system, with optional inline finishing. **DICEpress** is available in print widths from 5 inches (127mm) to 60 inches (1.52m) or more, and can print at speeds up to 1,000fpm (5m/s), depending on printheads and resolution selected.



Modules & Options Available

- Unwind module
- Splice table
- Roller coater
- Flexo/screen/gravure print station
- **DICE™** inkjet printer
- UV cure lamp (chilled roller option available)
- Accumulator (festoon)
- Inspection station
- Laminator
- Die-cutter (conventional rotary, magnetic semi-rotary, or laser)
- Electron Beam Dryer
- Slitter, sheeter, etc
- Rewind module





Applications

- Flexible packaging
- Folding cartons
- Labels
- Signage
- Electronic materials, display & circuits
- Other roll-fed products e.g. non-wovens, specialist materials
- Textiles

Application Examples

Purdue system: Printing up to 4 different electronic materials on flexible substrates in research lab



Lyle system: Web-to-print system to print signs up to 2 feet wide at a rate of over 14,000sq.ft/hr ((1,340 sq.m/hr)



Scotchbrite: High-quality printing of brand information onto a 60 inch (1.5m) wide web of specialist non-woven material.



Nimbus: Automated printing of variable data from a database onto a custom substrate, followed by lamination, with a zero waste requirement.



Specifications

Standard Configurations:

Imaging widths:	15", 25", 60"
Web widths:	2.5" plus
Core diameters:	3" or 6"
Max roll diameter:	Varies per specifications
DICE™ print colors:	Up to 6
Print speed:	Up to 1,000fpm, depending on printheads & resolution
Resolution:	400, 600 or 1,200dpi depending on printheads
Inks:	UV-curable, EB-curable, or water-based
Substrate thickness:	25μ – 250μ

