

DICEpress & Custom Printers



Product Overview

DICEpress is a complete, servo-driven, inline converting system for roll-fed materials. At its core is the DICEblade inkjet print module, featuring automatic head-cleaning and ink recirculation systems that ensure high nozzle-reliability. DICEpress systems are available with up to 10 colors, and the capability of printing variable data, barcodes and graphics.

The patent pending DICEblade system combines all the components of the DICE™ print engine in to one modular package. The DICEblade system is designed to improve image quality, system reliability and reduce mean time to maintain while providing the end user more flexibility to change their printing process to meet future requirements.

The DICEpress's modular design allows you to order the print width and tooling you need, unlike other digital presses that only let you buy a rigid configuration. And even after you buy the DICEpress you can continue to add tooling and print width to your existing digital press without having to buy a new system. This flexibility makes the DICEpress one of the best ways to add the exact digital press you want to your shop.

Because of its flexibility, the DICEpress is ideal for a variety of industries including label printing, sign and banner printing, packaging and others. The system can even include a positive pressure enclosure to generate high quality printing even when operated in dusty environments.

The DICEpress is available in a variety of printheads including, Fujifilm, Ricoh, Xaar, Kyocera, Konica Minolta, and Memjet.

The DICEpress has been qualified with a wide variety of inks including; aqueous, solvent UV and UV-LED curable inks.

DICEpress is available in print widths from 5" (127mm) to 60" (1524 mm) or more, and can print at speeds up to 400 fpm (122 m/min), 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

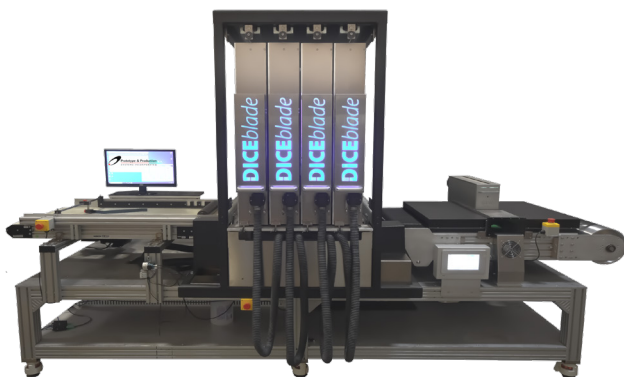


Applications

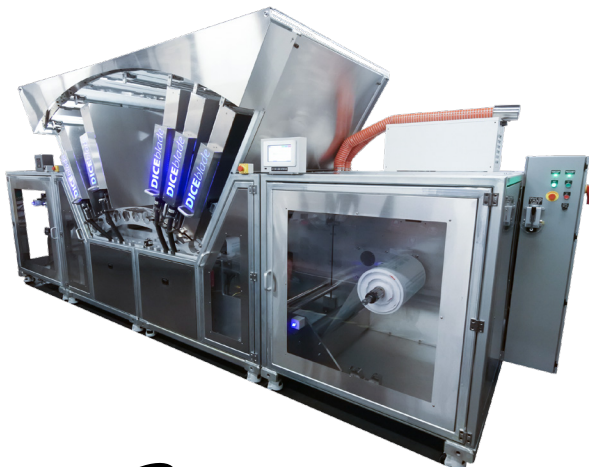
- Flexible packaging
- Folding cartons
- Labels
- Signage
- Electronic materials, display & circuits
- Other roll-fed products e.g. non-wovens, specialist materials
- Textiles

Application Examples

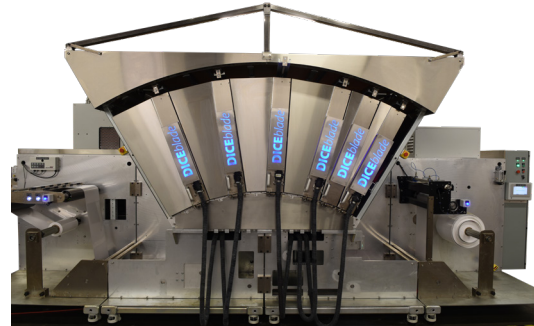
DICEbase conveyor digital printer for parts and sheets of material.



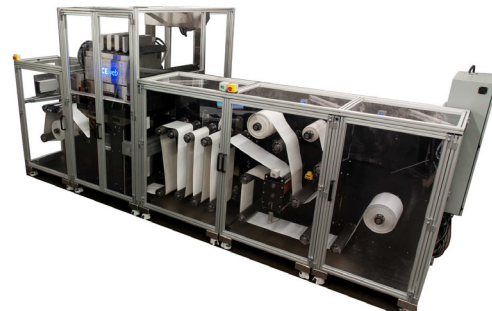
Web-to-print system to print signs up to 2 feet wide at a rate of over 14,000sq.ft/hr ((1,340 sq.m/hr)



The DICEpress can be customized to each customers needs while leveraging our provem modular inkjet design



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



Parameters	DICEpress
Imaging Width ¹	1.7 in (43 mm) up to 60 in (1524 mm)
Print Speeds ²	Up to 121 m/min at 1200 dpi x 600 dpi
Print Resolution	360 dpi - 1600 dpi
Jetting Fluids	Aqueous, UV-Curable, Solvents, and Custom Formulations
Substrates	Labels, Plastic Films, Indoor/Outdoor Signage, Ceramic Tiles, Printed Circuit Boards, and Functional Substrates
Computer	Windows 10 PC, Monitor, Mouse, and Keyboard
Drive Electronics / Software	GIS, Meteor, PLC Code
Power ³	200-240 VAC, 50/60 Hz
Product Dimensions ⁴	7in W x 42.5in H x [Frame Width] L Control box: 36"x14"x60"
Approx. Weight	Depends on configuration Control box: 500lbs

¹ Standard sizes listed. Larger widths available in custom orders

² Depends upon printhead type

³ Amperage will vary with print width

⁴ See Configuration Options Table for available frame sizes

