

# DICEtrax Single- Pass Conveyor Press



**DICE**<sup>™</sup>

## Product Overview

The DICEtrax conveyor printer provides quality wide format digital printing on a variety of substrates for packaging, products, parts and signs applications. The DICEtrax has the industry's only flexible configuration that allows printers to adjust their process from one print run to the next. This highly configurable print engine is so easy to maintain and operate you'll save thousands on service and maintenance costs.

### Capabilities

The DICEtrax printer leverages the DICEblade print module technology. The DICEblade is like a color station with a pinning lamp built in if required. The DICEblade contains the ink supply, drive electronics, printheads and automatic printhead cleaning system.

Each DICEblade print module can be easily and quickly removed for service via a sliding rail. This allows complete access to both sides of each printhead, drive electronics and ink supply. This design makes self-servicing simple, drastically reducing down time and eliminating maintenance contracts.

The DICEtrax's automatic head tending system eliminates dependence upon manual operator intervention keeping the printheads safe and clean.

The DICEtrax is an ideal design for wide format printing. The DICEblade print module system is configured with pinning lamps. This ensures excellent side to side color balance across the substrate.

### Versatility

The DICEtrax features a patent pending segmented conveyor. The segmented conveyor provides the precise material handling required to produce high quality color images. The conveyor cannot drift from side to side or stretch lengthwise which means the substrate travels in a fixed position under the print engine. Each conveyor segment is also a vacuum chamber that holds materials in place as it moves along the printer.

The modular design of the DICEtrax components can be combined to create a customized press. You can create up to a ten color digital print engine with one controller.

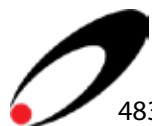
The DICEtrax is configurable in length. The frame can be built to include extra spaces for print modules that can be populated at a later date with additional blades adding new colors or coatings.



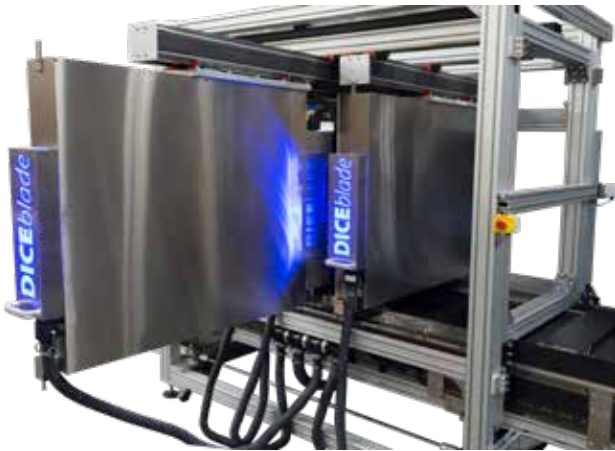
**DICEtrax** (Shown in 4 color configuration with room for 8 colors)

## Features of the DICEtrax Conveyor Press

- All in one design with integrated recirculating ink supply, drive electronics, automated head capping, and non-contact head maintenance
- Unique pull-out design allows for easy access to both sides of the DICE's print module for simple maintenance and reduced downtime eliminating the need for maintenance contracts
- Repeatable print bar placement allowing for 5  $\mu$ m jetting accuracy
- Available with printheads from leading manufacturers like Fujifilm, Konica Minolta, Kyocera, Ricoh, Xaar and Memjet
- Capable of jetting multiple fluid types including aqueous, solvent based UV and UV-LED curable and functional fluids
- Application areas include product decoration, packaging, ceramic tiles, plastic films, outdoor and indoor signs, flooring, wall covering, metal siding, printed circuit board legends and functional fluids
- Scalable print widths from single head applications to wide format arrays. Arrays of over 60" plus available in custom configurations



Printheads	Standard DICEblade Frame Sizes										
		Size 1		Size 2		Size 3		Size 4		Size 5	
	Frame Width	43.25" (1099 mm)		47.00" (1194 mm)		50.25" (1276 mm)		54.28" (1379 mm)		62.00" (1575 mm)	
	Resolutions / Speeds	# Heads	Width mm	# Heads	Width mm	# Heads	Width mm	# Heads	Width mm	# Heads	Width mm
<b>Fujifilm Samba</b>	1200 dpi / 200 fpm (61 m/min) 600 dpi / 400 fpm (122 m/min)	4	171	6	257	8	344	12	517	16	685
<b>Fujifilm SG 1024</b>	400 dpi / 180 fpm (55 m/min)	2	127	4	254	6	381	7	445	10	635
<b>Ricoh Gen 5</b>	600 dpi / 125 fpm (38 m/min)	3	160	4	213	5	267	8	427	12	640
<b>Konica Minolta 1800i</b>	600 dpi / 160 fpm (49 m/min)	2	148	3	223	4	297	6	445	8	593
<b>Konica Minolta 1024i</b>	360 dpi / 150 fpm (45 m/min)	2	141	3	211	4	281	6	422	8	563
<b>Kyocera KJ4</b>	600 dpi / 250 fpm (76 m/min)	1	108	2	216	3	324	4	432	5	540
<b>Xaar 1003</b>	360 dpi / 80 fpm (24 m/min)	2	139	3	208	4	277	6	416	8	554
<b>Memjet DL</b>	1600 dpi / 50 fpm (15 m/min)	1	72	1	72	2	144	2	144	3	217



DICEblade Print Module pulled out for maintenance



DICEtrax segmented conveyor

Parameter	DICEtrax
Imaging Width <sup>1</sup>	1.7 in (43 mm) up to 60 in (1524 mm)
Print Speeds <sup>2</sup>	Up to 60 m/min at 1200 dpi x 1200 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 Optional Secondary Operator Station
Drive Electronics / Software	Meteor, TRILOGI PLC Code, PPSI PrintManager
Power <sup>3</sup>	85-240VAC, single phase, 50-60Hz 200 amps; Air: 70psi @2CFM
Auxiliary Connections	Air: 90-100psi @ 2CFM Optional Internet for Remote Troubleshooting
Product Dimensions <sup>4</sup>	97" Hx72" Dx228" W Control box: 36" Hx14" Dx90" W
Approx. Weight	Depends on configuration. Standard 25" print width is roughly 3000 lbs 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

