

DICEtrax Single-Pass Conveyor Press



DICE[™]

Product Overview

The DICEtrax conveyor printer provides quality wide format digital printing on a variety of flat substrates like paper, plastic, corrugated cardboard and more. Applications include outdoor signs, solid parts decoration, packaging including boxes and many others.

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 modular design of the DICEtrax allows users to customize their press. Users can change the order of color laydown, combine different printhead types and customize the solid conveyor segments to handle unusual materials. System frames are available with room for up to 10 colors, this allows users to populate additional colors or coatings at a later date. Systems are available with widths up to 60 inches.

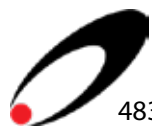
Print Speed



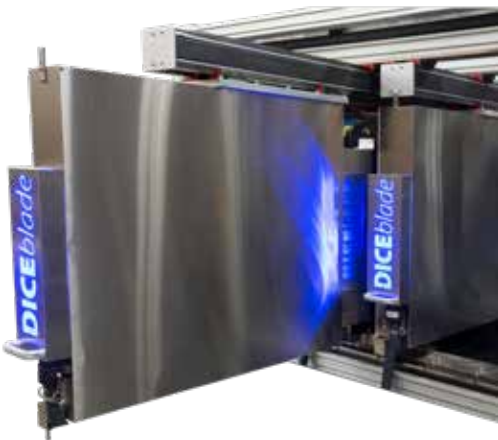
DICEtrax (Shown in 4 color configuration with room for 8 colors)

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 μ 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
Fujifilm Samba	1200 dpi / 200 fpm (61 m/min) 600 dpi / 400 fpm (122 m/min)	4	171	6	257	8	344	12	517	16	685
Fujifilm SG 1024	400 dpi / 160 fpm (49 m/min)	2	127	4	254	6	381	7	445	10	635
Ricoh Gen 5	600 dpi / 125 fpm (38 m/min)	3	160	4	213	5	267	8	427	12	640
Konica Minolta 1800i	600 dpi / 160 fpm (49 m/min)	2	148	3	223	4	297	6	445	8	593
Konica Minolta 1024i	360 dpi / 150 fpm (45 m/min)	2	141	3	211	4	281	6	422	8	563
Kyocera KJ4	600 dpi / 250 fpm (76 m/min)	1	108	2	216	3	324	4	432	5	540
Xaar 1003	360 dpi / 80 fpm (24 m/min)	2	139	3	208	4	277	6	416	8	554
Memjet DL	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 ¹	1.7 in (43 mm) up to 60 in (1524 mm)
Print Speeds ²	Up to 60 f/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 ³	85-240VAC, single phase, 50-60Hz 200 amps; Air: 70psi @2CFM
Auxiliary Connections	Air: 90-100psi @ 2CFM Optional Internet for Remote Troubleshooting
Product Dimensions ⁴	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

