

DICEbase Expandable Print Engines



Product Overview

DICEbase Series – These are flat print engines for single-pass conveyor or web applications. They provide manufacturers with the flexibility to print high resolution color images on a wide variety of substrates, short-runs and variable data. Our Industrial Inkjet print solutions are durable, reliable and designed to be robust enough operate in harsh manufacturing environments.

Capabilities

The DICEbase provides precise in-register printing even after it's moved for cleaning or maintenance. The blade mates with kinematic mounts that are built into the print bar returning to the exact position every time. Color modules can be moved in and out for maintenance and up and down for automated head tending and returned aligned with the substrate for precise drop placement.

Each DICEbase 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 the DICEbase simple, drastically reducing down time and eliminating maintenance contracts.

DICEbase is an ideal design for wide format printing. The blade system is configured with a pinning lamp for each color. This insures excellent side to side color balance across the substrate.

Versatility

The DICEbase is easy to integrate into existing equipment and processes, protecting users investments and improving productivity. The DICEbase's automatic head tending system eliminates dependence upon manual operator intervention keeping the printheads safe and clean.

The modular design of the DICEbase components can be combined to create a customized digital printer. A single color DICEbase can provide a spot color process. DICEblades print modules of different colors can also be combined into a full process color print engine for graphic applications. You can create up to a ten color digital print engine with one controller.

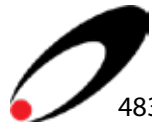
DICEbase is configurable in length. The DICEbase frame can be built to include extra spaces for print modules that can be populated at a later date with new blades adding new colors, coatings or other custom formulations for jetting. Additionally, each print module's print bar can be built with extra space for print heads that can be added later creating more print width.



DICEbase- (4 colors)

Features of the DICEbase Print Engines

- All in one design with integrated re-circulating 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 DICEbase'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





Printheads	Standard DICEblade Frame Sizes										
	Frame Width	Size 1		Size 2		Size 3		Size 4		Size 5	
		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 / 180 fpm (55 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



5 Color DICEbase in maintenance position



4 Color DICEbase Over a Conveyor

Parameter	DICEbase
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
Power	85-240VAC, single phase, 50-60Hz 200 amps; Air: 70psi @2CFM

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

