



## Product Overview

*DICE™ print engines from PPSI have been developed for high-speed single-pass inkjet printing applications. Capable of 229 ft/min (70 meters) from 400 to 1600 dpi, they represent the state of the art for single-pass inkjet printing systems. The DICE™ is designed for flexibility and supports different print head manufacturers, multiple jetting fluid types.*

*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 flexible DICEblade can be mounted on a curved roller system or as a flat system over a conveyor or slide table. The DICEblade supports a wide variety of printheads from leading manufactures including, Fuji, Ricoh, Xaar, Konica Minolta, and Memjet.*

*Wide Variety of Inks - The DICE™ print engines have been qualified with a wide variety of inks. These include aqueous, solvent UV and UV-LED curable inks.*

*Application areas include product decoration, packaging, graphics and labels, ceramic tiles, plastic films, outdoor and indoor signs, printed circuit board legends and functional fluids.*



## Features of the DICEblade System

Each DICEblade fits into permanent mounts which returns the print bar to the precise in register position each time you move it. Print quality is improved because the print bar can be perfectly placed within microns.

The DICEblade can be easily and quickly removed for service, This allows complete access to both sides of each printhead, drive electronics and ink supply.

The Blade version of the DICE™ print engine has spaces for 10 printbars. The Blades can be positioned as required by the customer. Each Blade is either an inkjet color or a UV pinning lamp. This allows the print engine to be reconfigured.

A self contained head tending system that cleans and covers the printheads Insures maximum printhead life and performance and prevents nozzle outs.

| Printheads       | Standard DICEbase Monochrome Frame Sizes |             |             |          |             |             |         |             |             |         |             |             |         |             |             |
|------------------|--|-------------|-------------|----------|-------------|-------------|---------|-------------|-------------|---------|-------------|-------------|---------|-------------|-------------|
|                  | 12.25"                                   |             |             | 16.00"   |             |             | 19.25"  |             |             | 23.25"  |             |             | 31.00"  |             |             |
|                  | 311 mm                                   |             |             | 406.4 mm |             |             | 489 mm  |             |             | 590 mm  |             |             | 787 mm  |             |             |
|                  | # Heads                                  | Print Width | Rear Offset | # Heads  | Print Width | Rear Offset | # Heads | Print Width | Rear Offset | # Heads | Print Width | Rear Offset | # Heads | Print Width | Rear Offset |
| Fujifilm SG 1024 | 2  | 5           | 2.97        | 4        | 10          | 2.97        | 6       | 15          | 2.12        | 7       | 17.5        | 2.87        | 10      | 25          | 2.97        |
| Fujifilm Samba   | 4  | 6.71        | 2.76        | 6        | 10.11       | 2.76        | 8       | 13.54       | 2.85        | 10      | 16.96       | 3.15        | 15      | 25.4        | 2.7         |
| Xaar 1003        | 2  | 5.4         | 2.76        | 4        | 10.8        | 2.75        | 5       | 13.5        | 2.75        | 6       | 16.2        | 2.87        | 9       | 24.3        | 2.75        |
| Keyocera KJ4     | 1  | 4.25        | 2.75        | 2        | 8.5         | 2.75        | 3       | 12.75       | 2.75        | 4       | 17          | 2.87        | 6       | 25.5        | 2.75        |
| Memjet DL        | N/A                                      | N/A         | N/A         | 1        | 8.5         | 3.75        | 1       | 8.5         | 3.75        | 2       | 17          | 3.125       | 3       | 25.5        | 2.75        |



DICEblade  
1 Color mounted  
on a flexo press



DICEblade  
6 Color Arched Roller  
Web Configuration  
DICEweb



DICEblade  
4 Color base  
Configuration  
DICEbase



Control Cabinet

## Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Size                            | 6.5" W x See Chart above L x 45.5" H |
| Print Speed                     | Up to 120m/min (400 f/min)           |
| Resolution                      | 400 to 1200 dpi                      |
| Ports                           | Inflow outflow tubes for printheads  |
| Capacities                      | Head Supply 150 ml, 10 micron filter |
| Connections                     | Ethernet Cable, Power Cable          |
| Power                           | 24 V DC                              |
| Input/Output Pressure Variation | +/- 0.2 kPa                          |
| Control Cabinet                 | 33"W x 40" L x 46" H                 |
| Temperature Control Variation   | +/- 1 deg C                          |
| Printheads                      | See Chart Above                      |
| Inks                            | UV, aqueous and solvent based        |