

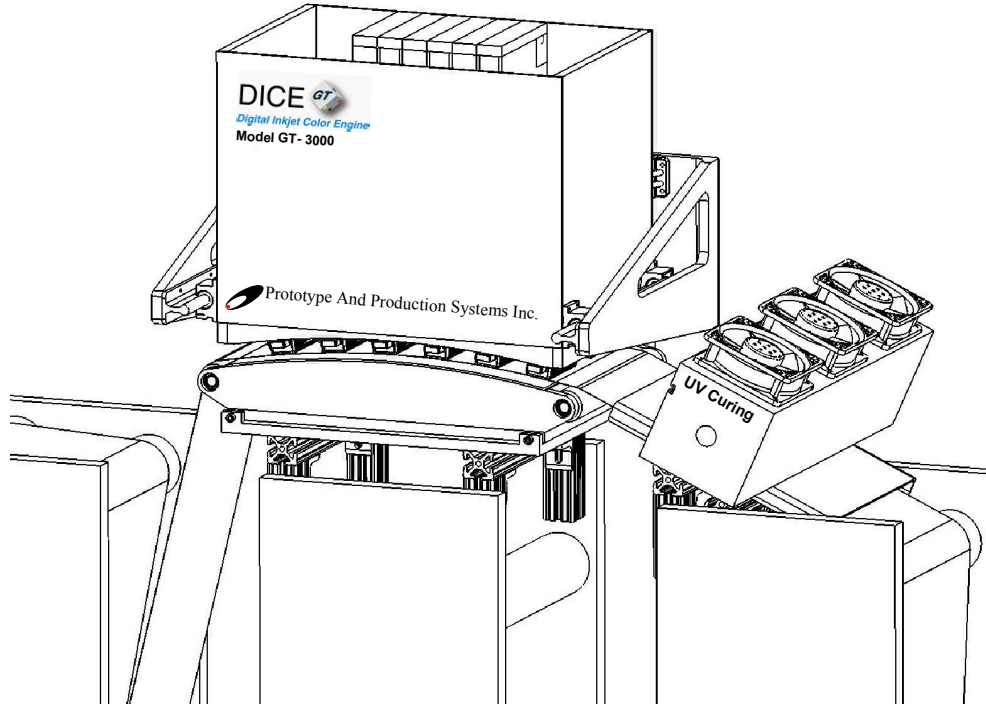
DICE

Digital Inkjet Color Engine

Model GT- 3000 (Small Frame Engine)

Model GT- 4800 (Large Frame Engine)

Turn your existing press into a state of the art hybrid digital web press.



A DICE GT System adds color digital inkjet capability to existing presses. The system includes everything required to convert a flexo or offset press into a digital hybrid press. Print small jobs 100% digitally, avoiding setup expense. Print larger jobs with traditional analog process, except now with color variable data capability. Preserve your investment in downstream processes and web handling by adding inkjet to your existing equipment.

Our innovative web transport employs an arched roller system that holds the web substrate tight to the idlers. This eliminates waviness in the substrate and maintains the exact nozzle to substrate tolerance necessary to achieve maximum digital print quality. In addition, our low friction idlers do not scratch or otherwise affect any back printing on your substrate, which can occur on systems that employ a flat or arched plate in the web transport.

- High reliability Xaar 1001 printheads
- Widths from 70.5mm (2.7in) to 564mm (22.2in)
- Speed to 24 meters/min (80 ft/min)
- 720 dpi apparent resolution
- 360 dpi 8 level gray scale
- CMYK plus 2 spot colors
- Wide variety of UV cure Inks available
- The unique printhead mechanical mounting system eliminates individual printhead registration adjustments
- The DICE GT systems mount to existing equipment with an easily configurable extruded aluminum frame
- Do it yourself customers can provide mechanical integration to their press
- Turnkey onsite integration is available
- UV cure systems available or customer may use their own cure system
- System includes PC with color RIP and job control software
- System includes sensors for registering to analog printing.



Prototype And Production Systems Inc.

13860 Industrial Park Blvd Plymouth, MN, USA 55441 763-557-9348

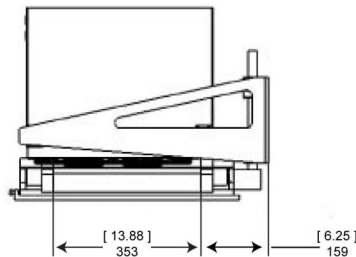
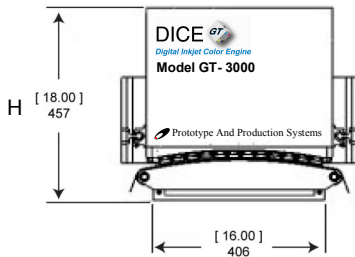
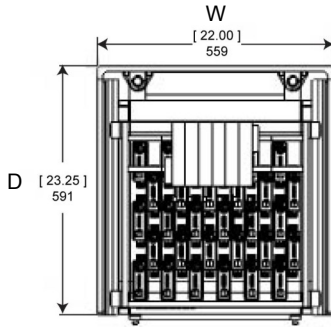
www.prototypepsys.com



Digital Inkjet Color Engine

Model GT- 3000 (Small Frame Engine)
 Model GT- 4800 (Large Frame Engine)

| Model | Frame Size | Heads Wide | Print Width (mm) | Print Width (inches) |
|---------|------------|------------|------------------|----------------------|
| GT-3000 | Small | 1 | 70.5 | 2.78 |
| GT-3000 | Small | 2 | 141.0 | 5.55 |
| GT-3000 | Small | 3 | 211.5 | 8.33 |
| GT-3000 | Small | 4 | 282.0 | 11.10 |
| GT-3000 | Small | 5 | 352.5 | 13.88 |
| GT-4800 | Large | 6 | 423.0 | 16.65 |
| GT-4800 | Large | 7 | 493.5 | 19.43 |
| GT-4800 | Large | 8 | 564.0 | 22.20 |



| Physical Dimensions | |
|---------------------|--------------------------|
| GT-3000 | 22.25" D x 22" W x 18" H |
| GT-4800 | 32.25" D x 22" W x 18" H |

DICE GT Designed to grow with your needs

We offer standard systems in two frame sizes, Small and Large. The Small frame (DICE GT-3000) can print widths of 2.78" to 13.88". The Large frame (DICE GT-4800) prints up to 22.2" wide. You can populate either frame size with the minimum number of heads needed to get you started. Then add more print width as needed without any hardware modifications other than inserting a few print heads. This allows you to gain experience with digital inkjet printing at a reduced cost while leaving the option open for increased capability later.

For example:

If you have a 13" wide press you can start with a Small frame GT-3000 populated 3 heads wide (8.33" print). The frame is pre-drilled for the addition of 2 more lanes of print heads, which can be added at any time.

Each frame is also pre-fabricated to accommodate up to 6 colors of print. Typical users will start with four (CYMK) colors. The additional two colors are commonly used for White or special PMS color matches.

Technical Specifications

| | |
|----------------------|--|
| Print Width | Model GT-3000 from 2.78 inches (70.5mm) to 13.88" (352.5mm) Model GT-4800 from 2.78 inches (70.5mm) to 22.20" (564mm) |
| Print Image Types | Bitmap, jpeg, tiff, png, gif |
| Print Speed | 80 fpm in high resolution mode 120 fpm in low resolution mode |
| Ink Types | UV Curable Jetting Inks for multiple substrates |
| Ink Supply | Custom Integrated system, small footprint |
| Bulk ink | 1 Liter collapsible color coded bags |
| Printable Substrates | Paper, plastic, film, metal, foil |
| Operating Conditions | 65 to 95 degrees F (15 to 35 Celsius) 30% to 65% Humidity |
| Operating System | Windows XP |
| Utilities | 85 to 265 VAC, single phase, 50/60 Hz, 20 amps. 70 psi @ 2 CFM |
| Print Head Type | XAAR 1001 - 360 DPI, 8 grayscale levels |
| Ink Colors | 6 Colors Maximum. Typically CMYK plus 2 Spot Colors |

Note: For bolt applications the customers equipment must provide a stable web motion. For working flexo and offset presses this is generally the case. Other converting equipment should be evaluated prior to purchase.



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