

  
DELPHAX®

# *elan*<sup>™</sup>500

Powered by   
*memjet*®



A BRIGHT FUTURE FOR COLOR PRINTING

# elan<sup>TM</sup>500

Powered by  
**memjet.**

*next  
discovery  
in print  
technology*

## ***Productive, versatile, profitable and marketable.***

Every organization faces the same challenge – how can you increase profitability and flexibility while expanding markets and decreasing costs? The new *elan*<sup>TM</sup> printing solution from Delphax delivers everything you need to increase your competitive edge and deliver the variety of digital printing services your customers need now, more than ever. This is the printing solution you have been waiting for, and the one you need today.

### ***elan<sup>TM</sup>500 delivers:***

**Vibrant Colors:** Up to 1,600 DPI, CMYK plus 2 spot colors or MICR

**Extraordinary Speed:** Up to 500 A4 images per minute

**Sheet-Fed Flexibility:** Up to 18" x26" (457 mm x 660 mm, incl. SRA2)

**Ease of Use:** Exceptional versatility with standard PDF workflow

# *a brighter future with elan*

## **Features that Drive Your Competitive Advantage**

In today's world, it takes a total printing solution to develop a competitive advantage and open new markets. *elan* delivers exactly what you need – exceptional versatility and ease of use; the ability to print on a wide range of sheet sizes and weights; high speed variable printing and of course; the vibrant colors that can only come from Memjet's revolutionary technology. The result? A suite of competitive advantages designed to drive profitability and distance your organization from the competition. All in an affordable print system – *elan* is exactly what you need, and more.

## **Unlimited Applications**

The applications for *elan* are only limited by the imagination of your designs. From Book Printing and Transactional to TransPromo and Direct Mail to Security Printing and Graphic Arts, you can use this print system for the digital variable data printing your customers need in today's market.



## **productivity**

- Utilize one of the fastest sheet fed full-color inkjet printers in the market – increasing productivity
- Experience uninterrupted workflow with our large input and output capacity
- Create your own library of profiled media substrates for optimum image quality
- Schedule and load balance work through the elan system administrator
- Real-time scalable RIP streamlines workflow and increases productivity
- Replace ink while running for maximum productivity
- elan camera system will ensure a quality product for your customer

## **usability**

- Be Adept: Verification tray provides ability to collect test patterns, digital proofs and image samplings, while the printer is running
- Be Efficient: Use the web to print process for workflow efficiency
- Be Informed: Customize existing reports or create your own using elan's comprehensive reporting system
- Be Hassle-Free: Clear jams with a visual indicator of the paper path
- Be Flexible: Identify issues with built in remote diagnostics (available 2015)
- Be the Best: Use your system monitor's visual indication capability to manage printer status

## **image quality**

- With our dye-based inks and high native resolution of 1,600 dpi your customers will enjoy vibrant, sharp and photo quality images
- With a combination of over 70,000 nozzles per printhead, take advantage of the latest in semiconductor thermal MEMs technology, improving your image quality with a small droplet size of 1.4pl
- Rely on our industry standard color profiling for consistent color
- Profile your paper stocks using industry standard profiling application tools
- Be assured of sheet-to-sheet consistency with elan's closed loop vision system

## **versatility & flexibility**

- Meet your specific color requirements by using CMYK and up to 2 spot colors
- Address your security and financial printing requirements using our patented MICR technology
- Print on paper ranging from:
  - 75 to 350 gsm with a potentially wider range of paper weights
  - 8" x 8" to 18" x 26" or 203.2mm x 203.2mm to 457mm x 660mm sheet size and potentially larger custom configuration
- The large format capability offers flexibility for highly efficient imposition of jobs
- Expand the substrate compatibility with our patent-pending in-line primer option (TBA)
- Our scalable RIP architecture addresses your real-time processing requirements no matter the complexity of the job

 **elan**<sup>™</sup>500

Powered by  **memjet**



# *excellent image quality*

## **Brilliant Colors, Amazing Results**

Each Memjet print head has 70,400 jets that fire more than 700,000,000 drops of ink per second. Each ink droplet has a tiny 1.4 picoliter volume capable of producing smooth tonal gradations and impressive image detail.

## **Color Gamut**

Just like in offset printing, the color gamut is a combination of both ink and paper. When paired with the proper papers, the aqueous dye-based inks used in the Memjet print head are capable of producing large color gamuts with bright, brilliant color.

*Ergonomically designed press console utilizes an intuitive graphical user interface to unlock the rich feature set, including an ever growing, time saving media library.*

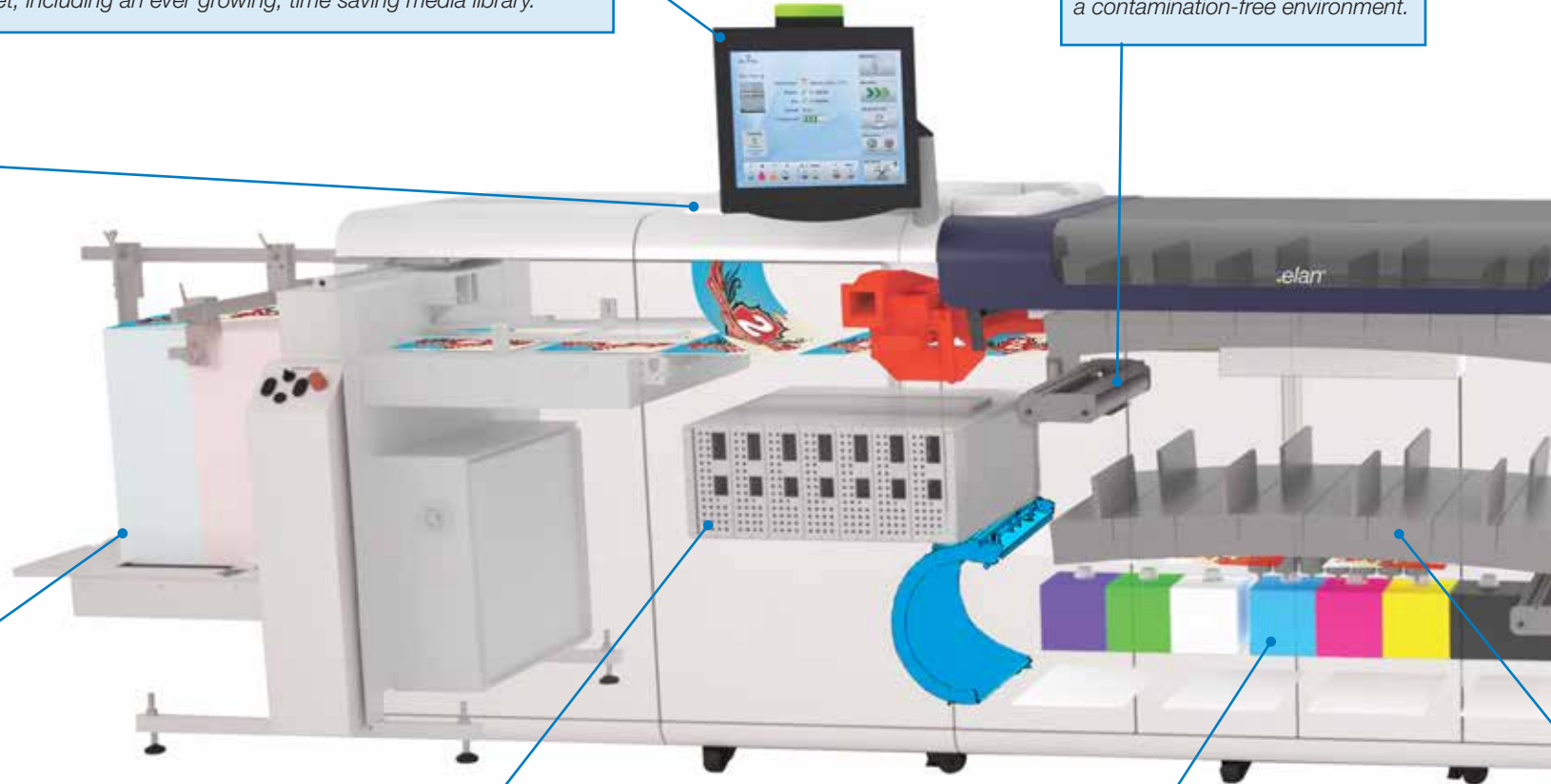
*Transport cleaning system assures a contamination-free environment.*

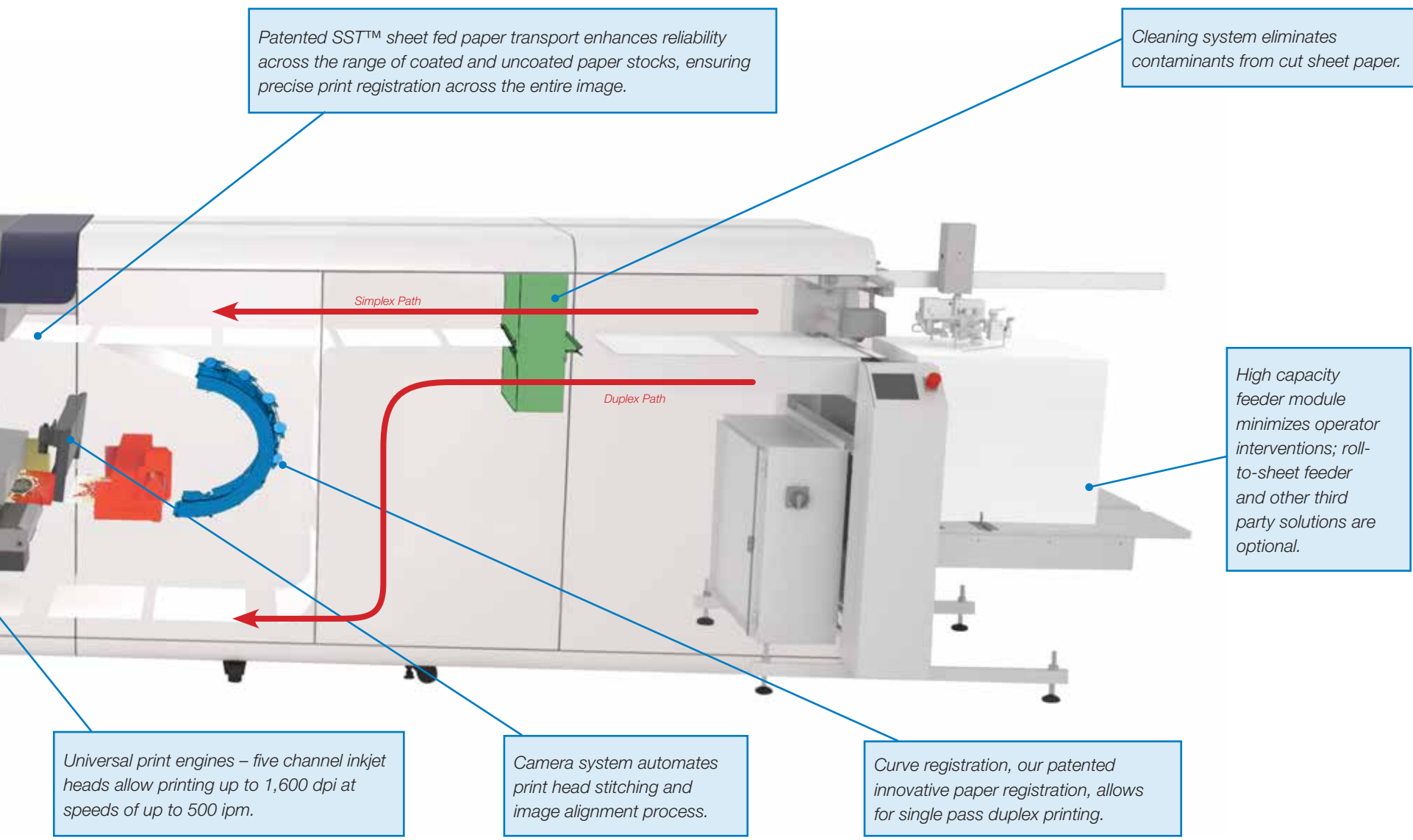
*Verification tray provides ability to collect test patterns, digital proofs and image samplings, without stopping production.*

*High capacity stacker that holds up to 5,000 sheets at 75 gsm; optional shingle conveyor or other integrated finishing solutions.*

*Scalable RIP platform expandable to meet your growing print demands at maximum speed.*

*Easy-to-load high capacity CMYK, MICR and spot color containers – replaceable while printer is printing.*





*Patented SST™ sheet fed paper transport enhances reliability across the range of coated and uncoated paper stocks, ensuring precise print registration across the entire image.*

*Cleaning system eliminates contaminants from cut sheet paper.*

*High capacity feeder module minimizes operator interventions; roll-to-sheet feeder and other third party solutions are optional.*

*Universal print engines – five channel inkjet heads allow printing up to 1,600 dpi at speeds of up to 500 ipm.*

*Camera system automates print head stitching and image alignment process.*

*Curve registration, our patented innovative paper registration, allows for single pass duplex printing.*



# with expertise comes ease

## dimensions

- **elan™500 Printer**

13ft X 4ft  
3.9m X 1.2m

- **elan™500 with Feeder & Stacker**

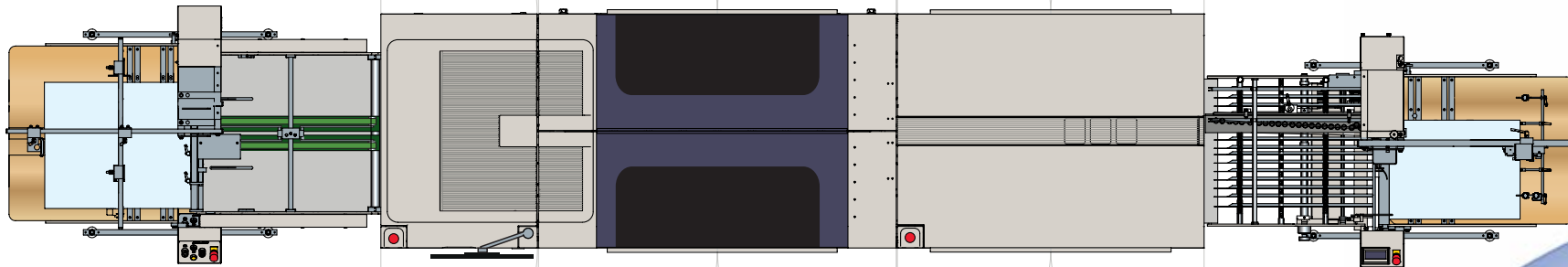
24ft X 4ft  
7.3m X 1.5m

- **Operational and Service Area**

32ft X 13ft  
10m X 4m

## Easy Setup and Integration, Exceptional Reliability

Delphax engineered *elan* to make it easy to setup and install and simple to integrate into your operation. It supports a wide range of data streams and 3rd party solutions, making it a seamless addition to your existing workflow. *elan* is also designed for exceptional reliability, with Global Graphics HHR RIP technology, fixed print heads and a host of other features that set a new standard for dependability. If you are searching for a printing solution that can help you reduce maintenance costs and maximize uptime, *elan* will exceed your expectations.





### **datastream support**

elan supports PDF, PDF/X and PDF/VT formats, and additionally offers solutions that address legacy data stream requirements, including, but not limited to AFP, IPDS, PCL, Metacode, VIPP, PostScript though integration with 3rd party solutions.

### **touch screen**

Embrace *elan*'s user-friendly technology including the ergonomically designed touch screen graphical user interface. This graphically-driven minimalist design is intuitive, keeping input options clear and simple. You can do anything with just a few taps – manage multiple print jobs, prioritize, interrupt, proof and reprint jobs.

### **reliability**

Reliability is one of elan's foremost qualities, with design features that maintain high quality performance and maximize uptime.

elan's features include:

- Global Graphics HHR RIP technology and Delphax elan real-time RIP ensure industry standard compliance.
- Camera system automates print head stitching and image alignment process and offers print jobs visualization.
- elan has been engineered to be hardware and software fault tolerant; its architecture reduces failure points by adapting and implementing intelligent self-diagnostics.

### **security**

elan provides security on every front whether it be in the corporate environment, or at print headquarters. Security methods include:

- Support for firewall and/or antivirus setup against virus-laden emails
- ID and password authentication based on client privileges (Available 2015).
- Client-initiated remote diagnostics using industry standard secure communication protocols like SSL or VPN.

### **electrical requirements**

3 phase; 3 wire + PE

AC208-230V; 35A; 60HZ

AC220-240V; 35A; 50HZ- Europe

Note: Pre and Post equipment each requires its own power source.

# the Delphax difference

Delphax is a global leader in the digital print industry, with over 30 years of experience developing innovations that drive your success. Our organization pioneered the high-speed digital imaging printers that accelerated throughput and enhanced efficiencies for publishers, direct marketers and all other commercial print customers.

Delphax has achieved its leadership position by continuously improving its product line to meet the changing demands of the printing industry. We work closely with our global customers to better understand your needs, and engineer solutions to help you develop a competitive edge. This approach has helped us become the world leader in security check applications, and our innovations continue with *elan*. Delphax designed *elan* to deliver everything you need to enhance your profitability and expand your markets.

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**memjet**

## **breakthrough technology**

*elan* digital color print series is powered by Memjet Waterfall Printhead Technology™, which produces high-speed color printing at comparative low cost and imaging resolution that is more exacting than the human eye. The Memjet printhead features 8.77 inch (222.8 mm) printable width, prints without moving back and forth across the sheet, and requires minimal warm-up time. The waterfall inkjet technology seamlessly lays down ink at 1,600 dpi by delivering up to 700 million drops per second with 70,400 nozzles on each printhead. Experience the wonder of *elan*, an innovation that changes the way we all look at printing.

# service beyond purchase

Delphax's commitment to service begins at the point of purchase. Our promise of efficiency and quality print production follows you right onto your print floor. It's all in line with our comprehensive support philosophy: we empower you and guarantee quick responses to technical issues for minimal downtime.

Through the years Delphax has grown into a global organization with a reputation for exceptional service and support. We give each and every customer the one-on-one attention they deserve.

For more information on *elan*, contact your local Delphax representative or visit our website.

[www.delphax.com](http://www.delphax.com)



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## Print Technology

- Inkjet thermal/MEMS-based semiconductor technology

## Ink

- Aqueous dye-based Ink:
- Cyan, Magenta, Yellow, Black and spot colors
- Pigmented MICR ink
- Ink tanks capacity (C,M,Y,K, Spot Color or MICR) – 4 liters each

## Paper Transport

- Patented SST™ paper transport

## Productivity

- Up to 500 images per minute

## Image Quality

## Resolution & Printing Speed

- High Quality: 1600 x 1600 dpi at 350 mm/sec
- Normal Quality: 1600 x 800 dpi at 700 mm/sec

## Spot Colors

- Up to 2 spot colors

## Ink Drop Size

- 1.4 picoliter

## Machine Readable Fonts

- MICR: E13B & CMC7
- OCR: OCR-A & OCR-B & E13B

## Paper Format

- Maximum sheet size: 18" x 26" (457 mm x 660 mm, incl. SRA2 ) and potentially larger custom configuration
- Minimum sheet size: 8" x 8" (203.2 mm x 203.2 mm)

## Image Format

- Maximum print width is 17.36" (441 mm) for continuous image and wider for discontinuous image

## Paper Weight

- Simplex Paper Path 75 to 350 gsm (20 to 130lb)
- Duplex Paper Path 75 to 240 gsm (20 to 90lb)
- Lighter weight materials may be used, subject to testing.

## Paper Flexibility

- Coated and uncoated stock

## Input Capacity

- Standard: high capacity feeder up to 5,000 sheets at 75 gsm

### Optional:

- Roll to sheet feeder
- Third party solutions available upon request

## Delivery

- Standard: high capacity stacker up to 5,000 sheets at 75 gsm

### Optional:

- Shingle conveyor
- Third party solutions available upon request

## Software

- PDF based workflow supporting
- PDF versions up to and including PDF 1.7, PDF/X-1, PDF/X-3, PDF/X-4, PDF/VT
- Optional support for...
  - PostScript®
  - AFP
  - IPDS
  - PCL
  - Metacode
  - Xerox VIPP
- ICC compliant color workflow
- Support for variable workflows with GMC Inspire, PrintSoft PReS, and others
- Centralized management GUIs for system, jobs, users and workflow capable of supporting multiple elan systems
- Production performance and system reporting as standard
- Scalable RIP platform capable of ripping at print speed
- Integration support for pre-flight, imposition, workflow automation tools, MIS systems, Web-to-print
- Designed to easily integrate with custom workflows

## Dimensions (standard pre & post)

- 5' x 24' x 4' (1.5 m x 7.3 m x 1.2 m) H x L x D
- Weight (approximate): 4,409 lb (2,000 kg)