

Xerox® CiPress™ 500
Xerox® CiPress™ 325
Production Inkjet Systems
Brochure



Xerox® CiPress™ 500

Xerox® CiPress™ 325

Production Inkjet Systems

Innovative waterless inkjet technology
delivers predictable high-quality color
on low-cost plain papers.



Delight your customers with unsurpassed color output on low-cost, untreated plain paper.

This waterless system enables you to produce more jobs with consistency, predictability and reliability, grow your business with high-quality color applications with dependable productivity and reduce your costs using inexpensive plain papers. The Xerox® CiPress™ 500 or the Xerox® CiPress™ 325 Production Inkjet Systems offer you a distinctive combination of flexible low-cost plain paper options, unique patented waterless inks, rugged piezo print head technology and an innovative print process.

Raise your performance level. Reduce your costs.

With CiPress™, you can achieve outstanding color results on plain paper that is uncoated and untreated, including economical offset papers.

Our advanced waterless inks and direct to paper print process deliver exceptional output on stocks ranging from 50 gsm to 160 gsm. It is ideal for your Transactional, TransPromo and Direct Mail, Catalogs and Manuals applications that use untreated plain paper stocks.

The benefits of plain paper include:

- Use lower-cost offset stocks
- Easier management of inventory
- Use of lightweight stocks with higher yields per roll
- No long lead time for special inkjet treated papers
- Avoid high cost of inkjet treated papers
- No disruption to existing supply chain





- With Xerox® CiPress™ Production Inkjet Systems, you can continue to use your existing paper stocks—even your offset litho stocks—to optimize productivity, improve lead time and obtain greater cost benefits.
- **Cut application and paper costs.** You can take advantage of lower-cost, lightweight paper alternatives, such as offset, for many of your applications and still see great results with optimum productivity. Our inks sit on top of the paper much like toner and litho inks rather than soaking into the paper's fibers like current water-based inkjet technologies. With our patented waterless inks, we enable high saturation and area coverage on stocks as light as 50 gsm, with no show-through or strike-through. As a result, you can manage your postal rates more effectively or include more sheets per envelope for enhanced, more personalized marketing messaging.
- **Eliminate preprinted shells.** Lower your cost of manufacturing by eliminating the associated supply chain costs of preprinted shells, such as storage, transportation, labor, obsolescence and materials handling. You can print both static and full color variable data on plain uncoated paper like bills, statements, invoices and personalized direct mail.
- **Produce more jobs with greater reliability.** Designed for the print and mail industry as well as publishing markets, the CiPress™ system delivers more reliable flat sheet output, improving post-processing equipment performance, enabling more efficiency, productivity and uptime with your finishing, inserting and mailing equipment. Even with high area coverage, cockle and curl are significantly reduced or eliminated because we use no water in our printing process or inks. Because we do not soak the paper with water, we eliminate the problems with water and paper saturation that can cause severe cockle and curl in your output.

The Xerox® CiPress™ Production Inkjet System builds on our history of innovation as well as our commitment to the continuous feed market. As a multi-technology company, we have over 5,000 world-class scientists and engineers working constantly to expand the technologies and solutions we offer to our customers. Over the past decade, we have developed a portfolio of continuous feed solutions that range from 350 to 2,180 images per minute and high speed variable data Production Print Controllers since 1977.

Expect vibrant color images with the Xerox® CiPress™ 500 or the Xerox® CiPress™ 325 Production Inkjet Systems.

Our patented waterless inks deliver bright, vivid color and excellent image quality—all on low-cost plain papers. No need for extra bonding agents or expensive specially treated inkjet papers.

Our production inkjet technology offers you significant advantages, especially in contrast to other aqueous inks and their printing processes that require adding high amounts of water into the paper.

The benefits of Xerox® waterless inks include:

- **High image quality is assured.** The Xerox® CiPress™ 500 and 325 Production Inkjet Systems deliver resolutions in either 600 x 400 or 600 x 600 dpi with a

wide color gamut for the most demanding applications. Precise, well-controlled, predictable dots hold their shape to produce sharp edges and excellent bar code readability with crisp fonts, images and graphics. Our patented closed-loop image processing ensures you get consistent, predictable results for every job, roll to roll and month to month, enhancing your efficiency and ability to meet your Service Level Agreements (SLAs).

- **Ongoing system reliability.** Our unique waterless inks are part of the key to CiPress™ high reliability and uptime. Our print heads and inks are not affected by evaporation, the highest cause for print head clogging and failure. With our innovative technology, our ink can remain unused in our print heads for weeks and the print heads will still fire on demand. This means quick startup, more uptime and reliability, fewer stoppages and cleaning cycles and, ultimately, greater production and output per shift.

Page 1 of 1
Customer Service
1-800-555-1234

ACCOUNT ACTIVITY
September 1, 2010 - December 1, 2010

Membership Account Summary

Membership Number: 0087 8265 5482 0123	Membership Duration: Jan 1, 2011 - Dec 31, 2011
Membership Type: Family - Gold	Amount Due: \$ 300.00
Primary Member: John Smith	Due Date: 12/17/10
Address: 1234 Main Street Philadelphia, PA 19142	
Email: johnsmith@intune.com	

Balance music entertainment Points Activity

Trans Date	Description	Amount	Balance	Points
09/17	Telephone - Philadelphia's Music Concerts	81.00	6.40	168
09/20	Gas Purchase - Amazon	49.50	6.90	10
10/22	Gas Purchase - The Music Store	35.00	3.90	72
10/30	Gas Purchase - The Music Store	79.00	1.90	40
11/18	Telephone - The Music Store	86.00	6.90	130
Total Savings and Points Earned This Quarter			23.74	428

Thanks for enrolling your Intune music entertainment membership. As a special thanks, we'll give you \$500 off any qualified music entertainment purchase between January 1, 2011 and March 31, 2011 when using your IntuneCard. See intune.com/coupon2010 for details.

Intune
music entertainment

Make checks payable to Intune music entertainment or use our toll service at www.intunemusic.com/Intune

Membership Number	Membership Type	Exp Date	Account Due	Primary Member
0087 8265 5482 0123	Family - Gold	12/31/10	\$ 300.00	

JOHN F. SMITH
1234 MAIN STREET
PHILADELPHIA, PA 19142

INTUNE MUSIC ENTERTAINMENT
21 W. PLAZAWAY AVENUE
MANCHESTER, NY 12050-1000

004060014805428440232348444

PHILADELPHIA SYMPHONY

Musical Kaleidoscope

Music for Families

Coming Spring 2011

A Series of three concerts designed for families with young children.

Orchestra A-Z

Musical Tales Celebrate with Music

Subscribe to all three and save 20% off the regular price tickets.

PHILADELPHIA SYMPHONY

Music for Families

CLASSICAL CONCERTS DESIGNED FOR FAMILIES

Orchestra A-Z

With an each instrument of the orchestra comes to life and offers up its story in a magical musical way.

Saturday, April 23, 2011, 2:00 PM

Conductor/Performers: Riccardo Chailly/Symphony

Musical Tales—Play Like a Story!

Music is a great conductor! Through the chemical combination of music and your imagination, the Philadelphia Symphony brings to you great characters to life.

Saturday, April 23, 2011, 2:00 PM

Conductor/Performers: Riccardo Chailly/Symphony

Celebrate with Music!

Music adds to the celebration of any occasion—through lyrics, melodies and songs. Celebrate the joy of classical music with the Philadelphia Symphony.

Sunday, April 24, 2011, 2:00 PM

Conductor/Performers: Riccardo Chailly/Symphony

Tickets range from \$10 to \$97. 20% discount when you purchase tickets for all three in the series. Half price for ages 17 and under.

Purchase tickets online at www.intunemusic.com/IntuneCard or by phone (717) 451-1100 or at participating area stores.

Note: All artists, programs, dates, times, prices and locations are subject to change. Group discount not available.



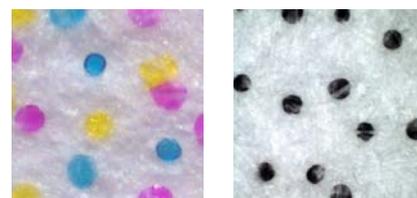
- Easy to handle, manage and store.** Our waterless inks are dry granules that feed easily, melt quickly and are easy to store and refill. You don't have to move or recycle our ink dispensing drums because they are permanent fixtures—you can refill them on the fly, while the system is running, from smaller, lighter, easy-to-handle 10 kilo containers. This saves your operators from handling large, heavy drums with awkward hoses and messy liquids, increasing your productivity and uptime. Storage is worry-free because these waterless inks have no shelf-life restrictions.
- Use less ink.** Setup, registration, alignment patches and cleaning procedures are efficient, saving you time and money and minimizing waste for both ink and paper. No clean and purge procedures are required during standby modes to keep the ink from evaporating and clogging the heads that, in turn, may require additional cleaning or head replacement.

- Ink optimization.** Twelve new choices are now available for ink management from the highest quality for high value applications down to a 54% ink savings for less demanding applications. Instant flexibility on a job by job basis helps manage ink cost to leverage margins while still enabling choices for maximum image quality for those direct mail or catalog applications.
- Ink estimation and monitoring.** Ink estimation based on area coverage is highly inaccurate. With the Xerox® Ink Estimation Tool, we can determine the actual amount of ink used by measuring the post RIP file after all color management has been applied for precise ink usage, which will enable more accurate job estimation.

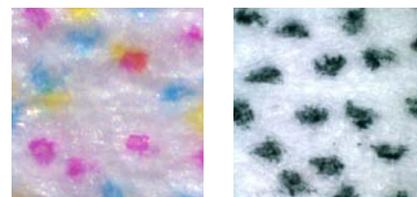
Consistently Excellent Inks

We've been developing inkjet technology for two decades and have manufactured thousands of tons of waterless, resin-type inks. Leveraging that experience, we understand the economies of scale and precise quality controls needed to ensure that our product delivers excellent performance the first time and every time you use it. Our stringent ink manufacturing guarantees you will find our ink colors to be consistent and uniform from one batch to the next, month after month.

The images below are 10X enlargements of 75 gsm offset paper.



Xerox® Production Waterless Ink



Aqueous Ink

Innovative New Print Process

The Xerox® CiPress™ 500 and Xerox® CiPress™ 325 Production Inkjet Systems' print process is robust yet simple. Built on a heavy duty web press transport, it offers precise motion and thermal controls with closed loop monitoring for automated missing jet correction and registration.

The print process uses precise web motion and thermal controls with a patented “reflex” process for web management, monitoring and correction of paper stretch and movement.

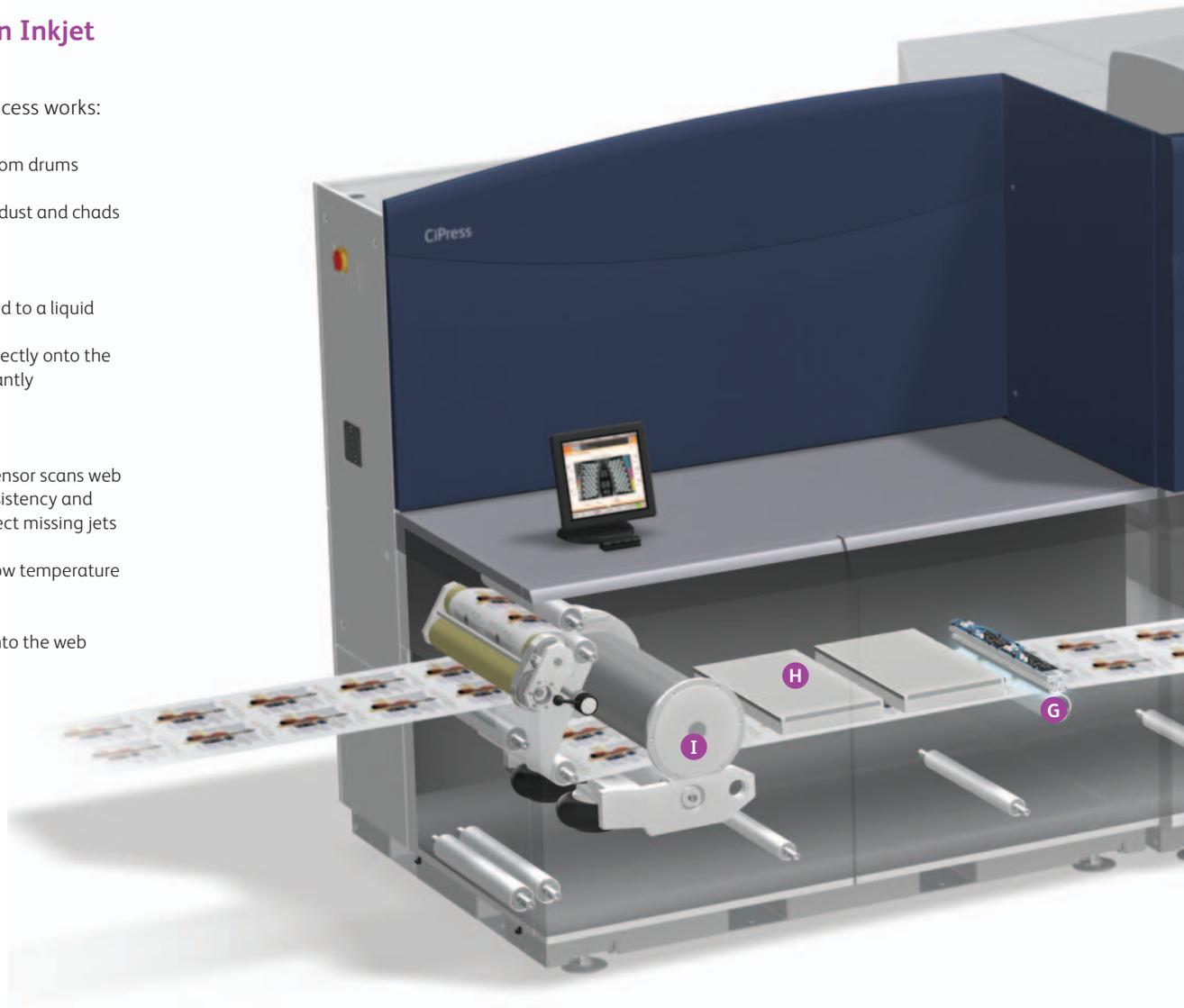
This ensures very accurate pixel-to-pixel, color-to-color registration and drop placement, job to job, roll to roll, month after month. This system is characterized by operational

simplicity—it's a stable, predictable technology that has been made even easier by requiring few consumables and offering valuable automation capabilities.

Xerox® Production Inkjet Print Process

Here's how the print process works:

- A** Ink granules are fed from drums
- B** Web cleaner removes dust and chads
- C** Web is warmed
- D** Ink granules are melted to a liquid
- E** Molten ink is jetted directly onto the web and hardens instantly
- F** Web is cooled
- G** Intelligent Scan Bar sensor scans web for image quality consistency and uniformity and to detect missing jets
- H** Web is warmed with low temperature ceramic heater
- I** Ink is pressure fixed onto the web

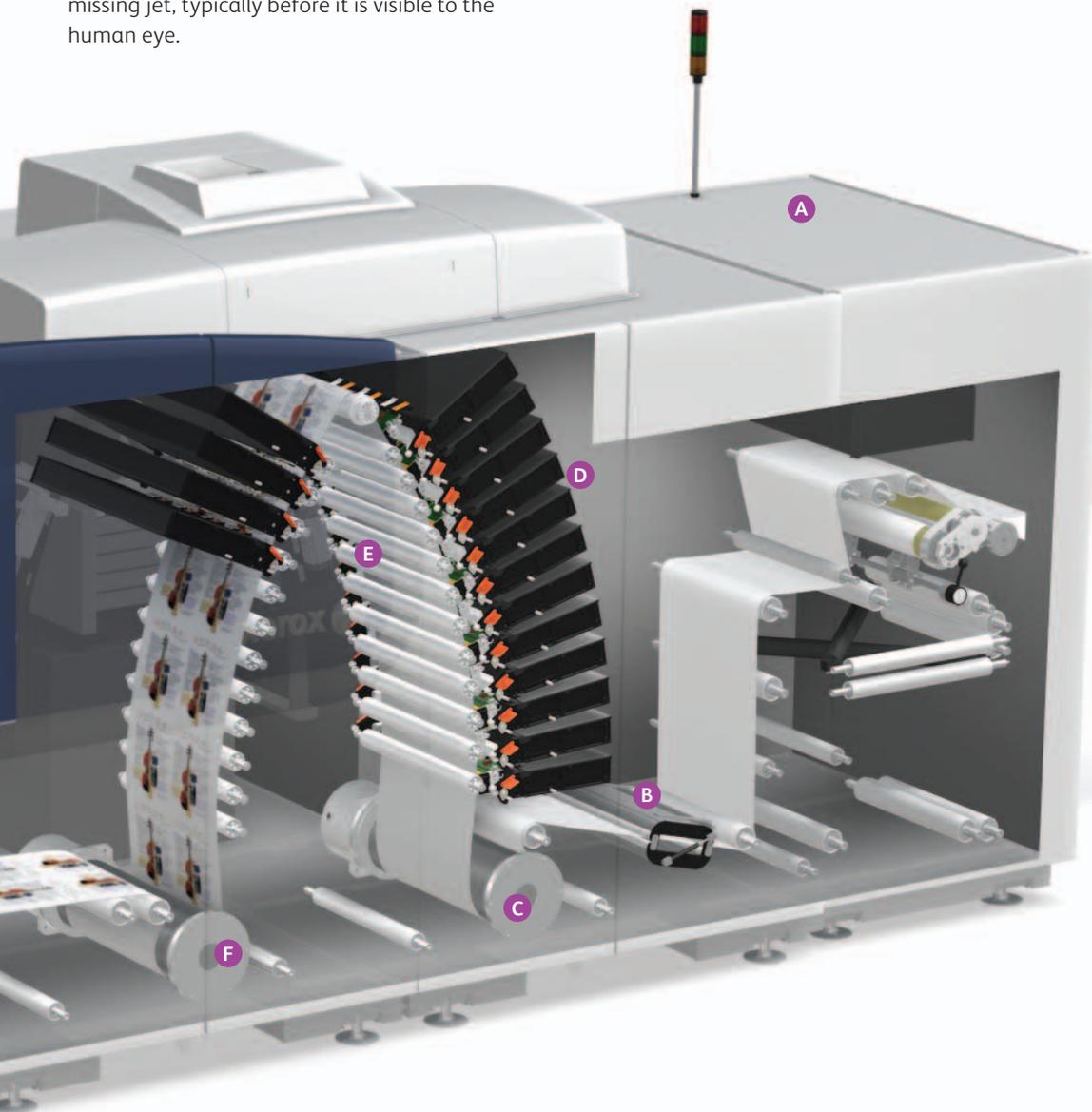


Intelligent Scan Bar detects and corrects problems automatically.

The patented Intelligent Scan Bar of the Xerox® CiPress™ Production Inkjet System provides a complete closed loop imaging system that detects and corrects print anomalies on the fly. It can detect a single missing jet, typically before it is visible to the human eye.

The Intelligent Scan Bar detects these problems and automatically corrects the errors by:

- Adjusting for precise color-to-color and front-to-back registration, ink density and uniformity.
- Compensating for missing jets by actuating adjacent jets to fill in and maintain the integrity of the output being printed, all at maximum speed with no stopping for print head realignment, cleaning or maintenance.



Intelligent print heads deliver on productivity promise.

Piezo mechanical drop-on-demand technology gives you reliability, durability, consistent density and uniformity of color output for every roll, every week.

With over 1 million made and installed to date, these modular print heads are long lasting with less maintenance, delivering more real print time every shift.

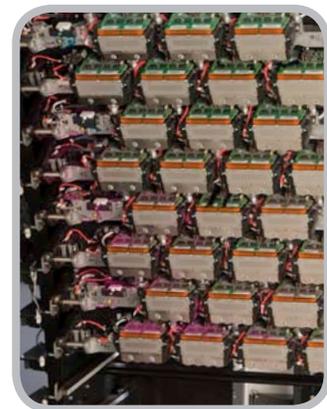
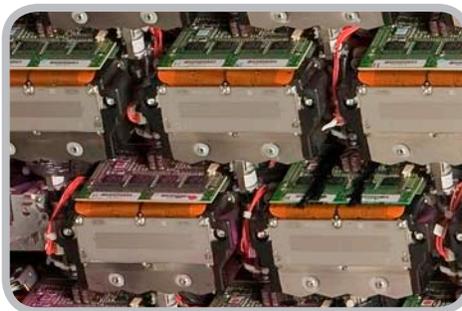
At 39,000 drops per second, ink is dispensed at very high speeds with web throughput at either 500 feet (152 meters) or 325 feet (100 meters) per minute. The four color CMYK system has 56 print heads, and all 50,000 jets are managed individually and controlled for accurate pixel placement on the page. Our jets are tunable, which means software and process controls can manage the waveform, behavior and performance of each piezo crystal that drives each jet. Every jet is tuned and calibrated to be uniform and consistent for accurate drop size and placement. This unique tuning also extends print head life by adjusting weak or excessive jetting to the right normalized level. Taken together, these factors deliver highly predictable image quality and very reliable, consistent output roll to roll, month to month.

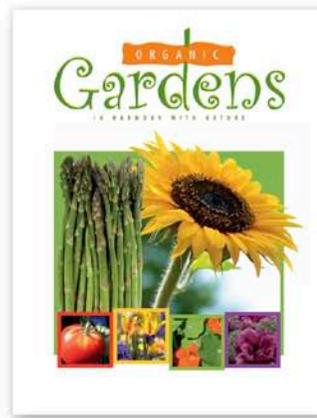
More uptime = more productivity.

You'll find productivity is engineered into every area of the Xerox® CiPress™ Production Inkjet System. We have automated many processes to minimize operator intervention, saving time and money. The result is a system that offers you more uptime and more opportunity to generate more output each shift.

Productivity features include:

- Speeds at 500 feet (152 meters) or 325 feet (100 meters) per minute
- Wide web width, 9" (229 mm) to 20.5" (520 mm)
- Closed loop monitoring
- Intelligent Scan Bar
- Automated print head maintenance, including robotically controlled print head cleaning
- Quick setup
- Automatic registration and alignment
- Missing jet detection and auto correction on the fly
- Modular manufacturing for installation and servicing





Increase your uptime and reduce your costs with intelligent automation.

Print head maintenance is automated to save your operators time and labor. It also extends print head life and increases your productivity and uptime.

- **Automated print head cleaning.** The cleaning process is robotically controlled and completed in minutes; there is no need for operator intervention. The system monitors and automatically detects which print heads require cleaning and determines when cleaning is needed. The amount of waterless ink purged in cleaning is minimal, reducing the amount of wasted ink and paper you discard. And because the ink is safe and non-toxic, it does not require licensed waste removal.*

- **Automated missing jet detection and correction.** The Xerox® CiPress™ Production Inkjet Systems' Intelligent Scan Bar detects missing jets and automatically compensates with adjacent jets—on the fly, in real time and at full machine speed—to ensure that your print quality remains consistent. The scan bar (which is also used in our iGen4® technology) is so sensitive it can detect and correct a single malfunctioning jet in many cases before the human eye can see it. With CiPress™, you can rely on our automated closed loop detection and correction system for print head performance and reliability. Your operator can monitor all of this activity on the Graphical User Interface.
- **Easy print head replacement.** While our intelligent piezo print heads are a durable long-life component of the system, when they eventually do require replacement, an operator can pause the production run and replace the print head quickly and easily. Print heads are a supply item so you always have spares on hand.

Key Attributes of our Patented Print Heads

- Modular 3" patented design
- Onboard intelligence with values stored in non-volatile memory (NVM)
- Multiple overlapping arrays up to 20.5" (520 mm) web width
- Fourteen print heads per color
- Precise thermal control
- Individual management of all jets
- Acoustic and fluidic process controls
- Heads float dynamically, adjusting color-to-color and front-to-back registration automatically on the fly in real-time

*Please consult your state and local requirements for proper disposal.

Xerox® FreeFlow® Print Server— An Open Solutions Platform

The power behind the Xerox® CiPress™ 500 and Xerox® CiPress™ 325 Production Inkjet Systems is the Xerox® FreeFlow® Print Server. FreeFlow Print Server offers scalable RIPs and servers with the power to handle even your most complex jobs and confidence to meet your most challenging SLAs. With over 40,000 installations, FreeFlow Print Server has the heritage and experience you expect.

- **Scalable RIP to match the complexity of your jobs and maximum speed of the printer.** Architected for scalable, parallel RIPing across multiple computers, the FreeFlow Print Server also uses integrated caching technologies. You take full advantage of these technologies by choosing the number of RIP servers. This enables you to scale RIPs to match the complexity of your applications so you can maximize the print engine's speed without clutching.
- **Native data stream support gives you flexibility.** The FreeFlow Print Server supports native data streams, including IPDS, PDF, PostScript and Xerox® VIPP®, without transforms or interim data formats. It offers both native data stream support and parallel RIP to give you more control, enabling you to streamline your workflow and leverage maximum performance with no impact to rated speed.
- **FreeFlow VI Compose: Variable data printing that keeps pace.** The FreeFlow VI Suite, featuring VI Compose, can substantially improve your productivity for printing personalized communications. VI Compose uses a "Dynamic Document Construction" (DDC) method of document

composition, meaning you send the document and the associated data and variables directly to the printer without any precomposition. This saves valuable network resources, eliminates bottlenecks and significantly reduces the time needed to print the job. Maximize the power of CiPress™ with FreeFlow Print Server and produce variable jobs with unsurpassed speed and efficiency.

- **A reliable predictable environment.** The FreeFlow Print Server has a 15-year heritage of proven performance processing variable data and static application content. Native support for industry standards, like JDF and JMF, ensure our solution will integrate seamlessly with your current workflow.

- **Consistent color means confident color.** FreeFlow Print Server has advanced color management features built-in to ensure reliable, predictable color output across all data streams. ConfidentColor is delivered via source and destination profiles, object-based color management, rendering intents with intelligent closed loop color control. All of this automation delivers consistent worry-free color out of the box, roll to roll, engine to engine, anywhere around the world.
- **Achieve your business goals faster.** Choose the workflows you want. Choose the power you want. The FreeFlow Print Server will deliver the productivity you need to meet demanding customer requirements.

Xerox and GMC team up to deliver an IntegratedPLUS Solution.

The GMC IntegratedPLUS Solution gives you the best of Xerox® and GMC technology in one fully integrated package:

- Preconfigured settings that optimize RIP and system performance
- Color settings that are pre-calibrated specifically for CiPress™ deliver consistent and predictable color quality out of the box
- Two-way data communications from the print server controller to your print management system (including IPDS, PS and PDF) provide visibility to your jobs throughout the print production process regardless of data stream

Whether you need a solution that fits inside your current environment or one that replaces a legacy system, Xerox offers scalable production workflow solutions that can help you improve efficiency and lower your costs.

Green is this printer's favorite color.

Environmentally responsible features and components focus on environmental sustainability and are apparent in the Xerox® CiPress™ 500 and Xerox® CiPress™ 325 Production Inkjet Systems.

- **Safe, non-toxic ink.** CiPress™ uses waterless inks that are safe and non toxic with no special disposal required. We recommend that you consult with your state and local waste disposal authorities for additional information.
- **NAPIM certified ink (in USA).** Xerox® solid ink has been certified to have 30% bio-derived renewable material content by the National Association of Printing Ink Manufacturers (NAPIM).
- **INGEDE Certified output.** Our output is INGEDE (International Association of the Deinking Industry) Certified “Good De-inkable.” This is the highest possible rating based on ERPC (European Recovered Paper Council) Deinkability Scores. The Xerox® CiPress™ Production Inkjet Systems are the only high speed inkjet devices in the market that have received this certification. This means that output from CiPress™ can be recycled from white paper back into white office paper.
- **Dryer-free design.**
 - Because no water is used in our ink and printing process, this system does not need costly, energy-consuming dryers.
 - This system’s power consumption does not increase with higher area coverage.
- **Reduced sensitivity to shop floor environmental control.** Our print process is less sensitive to fluctuations in temperature and humidity. Little or no paper acclimatization is required, which means you’ll enjoy easier paper handling and more flexible use of “on hand” stocks.
- **Print-head recyclability.** Manufactured to our highest standards using patented techniques and durable stainless steel components, our print heads are tough and durable and then returned to Xerox for recycling.
- **Efficient paper and ink use.** Paper and ink waste is minimized due to efficient setup, registration, alignment patches and cleaning and maintenance procedures.



Specifications for the Xerox® CiPress™ 500 and Xerox® CiPress™ 325 Production Inkjet Systems

Printer

- **Print Engine:** Continuous Feed, Digital Web
- **Imaging Technology:** Inkjet Drop On Demand (DOD)
- **Inks:** Dye, waterless
 - Capacity: 80 kilo permanent drum with 10 kilo refill containers
- **Resolution Input:** 240 dpi, 300 dpi, 600 dpi
Output: 600 x 400 or 600 x 600
- **Print Speed:** 500 fpm (152 m) and 325 fpm (100 m)
- **Speed in Images per Minute:**
 - U.S. Letter (8.5" x 11")
 - Simplex:**
 - Portrait one-up – 545
 - Portrait two-up – 1090
 - Duplex:**
 - Portrait one-up – 1090
 - Portrait two-up – 2180
 - A4 (210 mm x 297 mm)
 - Simplex:**
 - Portrait one-up – 513
 - Portrait two-up – 1026
 - Duplex:**
 - Portrait one-up – 1026
 - Portrait two-up – 2052

Paper Handling

Web Width:

- **Pinless or Pinfed:** 9" (229 mm) to 20.5" (520 mm)

Image Area:

- **Pinless/Pinfed:** single page image
 - Width: 1 pixel to 19.5" (495 mm)
 - Length: 6.5" to 22" (165 mm to 559 mm)
- **Paper Types:** Pinfed, pinless, uncoated, offset, recycled, bond, newsprint
- **Paper Weight:** 50 – 160 gsm* (34 lb – 108 lb offset)
- **Pre- and Post-Processing:** The printing system does not include web input or output devices. These must be purchased separately from authorized Xerox Partners. Pre- and post-processing devices connect via the Xerox® patented Print Line Bus (PLB) intelligent interface.

*Lighter and heavier paper weights and matte coatings are possible based on successful testing by Xerox.

- **Pre/Post device configurations supported:** Roll to roll, roll to fold, roll to cut sheet. Consult your Xerox Representative for other available finishing configurations.

Print Engine Controller

FreeFlow® Print Server

- **Physical Rack System Measurements:**
 - Height: 78.7" (199.8 cm)
 - Width: 23.6" (60 cm)
 - Depth: 47.2" (120 cm)
- **Rack System Weight depending on configuration:**
 - Simplex (Base) – 716 lb (325 kg)
 - Duplex (Peak) – 1,293 lb (585 kg)

CPU

- Oracle X4170M2
- Sun Solaris 10 Update 9

DFE Configuration

Single rack mount cabinet for single or twin engine configurations contains:

- Application Server: 1
- RIP Servers: 3, 5, or 7 (18 to 84 RIPs)
- Video Servers: 2

Memory Capacity

Front-End:

- DVD+/-RW SATA based drive
- 2 x 300 GB 10K RPM 2.5" SAS Hard Drive
- 12 GB RAM

RIP Servers:

- 6 x 300 GB 10K RPM 2.5" SAS Hard Drive
- 24 GB RAM

Video Servers:

- 1 x 500 GB 7200 RPM 2.5" SATA Hard Drive
- 36 GB RAM

GUI

19" monitor, keyboard and mouse, stand (optional)

Interface

- 10/100/1000 Ethernet
- One host connection per print engine

Connectivity and Client Support

Adobe® PostScript® Printer Descriptions (PPD)

- Native JDF/JMF
- HTTP and HTTPS browser submission
- IPP job submission and system status
- TCP/IP: Support for IPv4 and IPv6 (dual mode)
- LP/LPR and socket submission
- DHCP

Data Streams

- Adobe PostScript (must be DSC-compliant)
- Adobe Acrobat® 9.0, PDF 1.7, PDF/X 1a, 3, 4
- Native IPDS rendering
- Xerox® VIPP®
 - Line Mode, Database Mode and Native

Installation Environment

- **Dimensions per Engine:**
 - Width: 20.1' (6126 mm)
 - Depth: 8.02' (2444 mm)
 - Height: 9.1' (2774 mm)
- **Weight:**
 - Print engine (including Thermal Controller and 4 ink drums) – 12,641 lb (6697 kg)
- **Room Temperature:**
 - 60°F to 85°F (15.6°C to 29.4°C)
- **Relative Humidity:**
 - 20% to 80%
- **Heat Output:** 91,800 BTU/hr
- **Electrical Requirements:**
 - North America
 - (1) 480V 75A 3 phase
 - (1) 208V 100A 3 phase
 - Europe
 - (1) 380V – 415V 75A 3 phase
 - (1) 380V – 415V 100A 3 phase
 - Electrical Consumption
 - Standby: 14.5 kWh
 - Printing: 27 kWh

To learn more about the Xerox® CiPress™ 500 and Xerox® CiPress™ 325 Production Inkjet Systems, contact your Xerox representative or visit www.xerox.com

