Specifications

Print Engine

Xerographic print engine with light emitting diode technology

Two engines required for duplex operation

Fine particle toner delivers consistently high image quality and fidelity

Flash-fusing technology has no contact with the media and therefore maintains best media characteristics (moisture and flatness)

Supports pinfed and pinless media types

Internal Stacker is standard in every print engine

Touch-screen graphical user interface provides single-point operator control for print line

Auto-alignment for duplex configurations reduces wasted media and increases operator productivity

Print Speed

300' per minute (91.44 meters per minute) switchable to 225' and 194' per minute

654 ipm 2-up simplex US letter or 1,308 ipm 2-up duplex US letter

616 ipm 2-up simplex A4 or 1,232 ipm 2-up duplex A4

1,200 ipm 3-up simplex 6" x 9" or 2,400 ipm 3-up duplex 6" x 9"

1,309 ipm 3-up simplex A5 or 2,618 ipm 3-up duplex A5

Print Resolution

Input: 240 x 240 dpi, 300 x 300 dpi, 600 x 600 dpi, 1,200 x 600 dpi available at 194' per minute

Output: 240 x 240 dpi, 600 x 600 dpi, 1,200 x 600 dpi

Image Area

Printable area

The maximum printable width is:

Pinfeed: 18.5" (469.9 mm)

Pinless: 19.5" (495.3 mm) guaranteed up to 19.4"

The optimal print length for box-fed media is within 8.5 mm (1/3") of page-length perforation.

Duty Cycle

Maximum Duty Cycle: 8 million feet per month (2.4 million meters per month) or 32 million images (2-up duplex US letter) or 30.8 million images (2-up duplex A4)

Paper Weights

17–53 lb bond (64– 200 gsm) pinless

16–43 lb bond (60–160 gsm) pinfed

15–54 lb bond (40– 200 gsm) pinless (available post-launch)

Paper Sizes

Pinfed:

• Width: 6.5" (165.1 mm)–19.5" (495.3 mm)

• Length: 3"–28" (76.2 mm–711.2 mm)

Internal stacker is only accessible with box-fed, fanfold pinfed media in simplex configuration (Supports lengths up to 60" post-launch)

Pinless:

• Width: 8" (203.2 mm)–19.5" (495.3 mm)

• Length: 3"–28" (76.2 mm–711.2 mm)

Internal Stacker not accessible with pinless paper stock (Supports lengths up to 60" post-launch)

Controller

Hardware: Dual, multi-core processors running at 1.8 GHz or better

Software: Windows XPe™ based

Connectivity:

• Up to 2 host connections per engine
  – TCPIP: Gigabit/100MBit (auto) Ethernet
  – Channel S/370 (optional)

Data Stream Support

Native: IPDS (type 4) capabilities including compressed images

• IBM® Line Mode (IBM® 3800-3)
• Océ Enhanced Line Mode (with LIPS/OLGA)
• IBM® OS/390® V2.0 or higher, Z9 Z/OS
• IBM® TCP/IP™ for MVS™ 3.2 or higher

Optional:

• Xerox FreeFlow® Print Server. Supports PostScript®, PDF, PCL, TIFF, VIPP® and PPML
• Emtex® VIP™. Supports LCDS/Metacode and AFPDS to IPDS

Options

Scanning Services: FreeFlow® 665 Scanner and FreeFlow® Makeready 6.0

Pre- and Post-Processing: Support for external third-party unwinder and post-processing solutions

Workflow: Xerox FreeFlow® Digital Workflow Collection

Pre- and Post-Processing Control

Print Line Bus™ (PLB): Patented communications architecture for components of full print line. Ensures maximum operator efficiency with ability to status each component in-line from print engine touch-screen interface.

Print Line Management™ (PLM):

• Connects each device in print line via a Print Line Bus (PLB) box
• Monitoring of all devices in print line via the print engine touch-screen interface
• Up to 10 PLB interfaces per print line
• Enables mix and match of various pre-/post-vendor devices in same line

Physical Characteristics (per engine)

Depth: 39.0" (990 mm)

Width: 117.8" (2,990 mm)

Height: 61.1" (1,550 mm)

Weight: 4,321 lb (1,960 kg)

Supported Configurations:

• In-line
• 90 degree turn
• Parallel Z
• Multiplex (3 engines)

Electrical Requirements

Low Voltage Configuration:

• 200/208/230V 67A, 50/60Hz without transformer
• 210/220/240V 67A, 50/60Hz with transformer
• 3 phases, and ground, 4 wires
• Blower unit – 208V 2.0A, 2 phase
• PLB power supply – 110VAC wall plug
• Recommended wall breaker – 100A

High Voltage Configuration:

• 380/400/415V 35A, 50Hz/60Hz with transformer
• 4 wires (cross section 10 sq mm), 3 phases, and ground, no neutral connection
• Recommended wall breaker – 40A
• Blower unit – 220V/1.9A 50Hz – single phase
• PLB power supply – 220VAC wall plug

Environmental Requirements
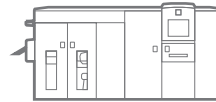
Temperature: 16°C – 32°C, 60.8°F – 90°F

Humidity:

• Working Range 15%RH – 85%RH
• Recommended 30%RH – 65%RH

Power Consumption:

• Operating: Approximately 23KVA
• Stand-by: Approximately 1.6KVA

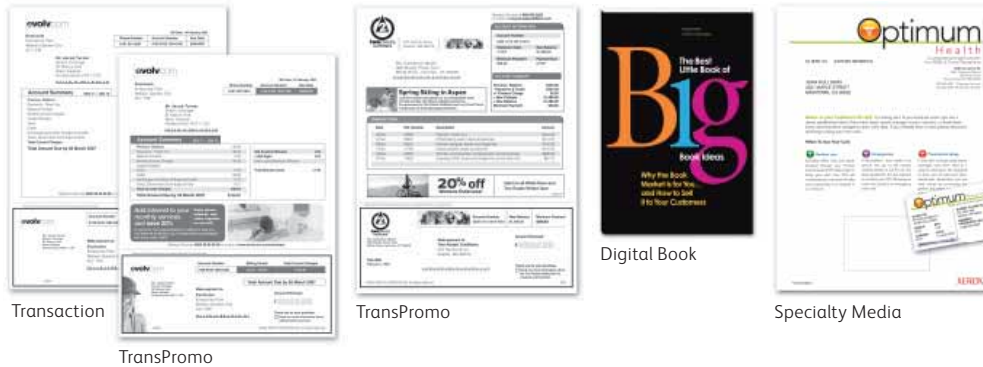Xerox® 650/1300™
Continuous Feed Printer
Overview

Xerox 650/1300 Continuous Feed Printer

Build business momentum with continuous productivity.

Accelerate your business…

…with high-quality, high-volume, high-speed monochrome. You see the evolution of documents all around you: shorter runs, faster delivery, personalization and print-on-demand. We will partner with you to build on that momentum for your business success—and your customers' success. Our experienced people can assist you with print technology, application workflows, and business development.

You can offer your customers **more applications** to meet their needs, even as you grow your business and achieve **maximum productivity,** with our 650/1300™ Continuous Feed Printer. With this printer, you can expect:

- Faster turnaround for your jobs—a combination of fast printing and workflow optimization enables you to meet your customers' tightest deadlines. And you can fill that "saved time" with more jobs, more volume.

- Uncompromising reliability and maximum uptime.

- Unmatched flexibility and productivity with Xerox multiplex technology that allows for 3 print engines and their pre-/post-processing devices to be shared in one production configuration.

- Innovative flash-fusing technology and fine particle toner, which deliver superb monochrome imaging, expansive substrate flexibility and flat output sheets that run more reliably through post-processing equipment.

- 1200 x 600 dpi RIP and print technology that offers outstanding image quality at incredible speed for new publishing and TransPromo application opportunities.

Transaction

TransPromo

TransPromo

Digital Book

Specialty Media

Publishing, books and manuals

Read all about it: delivering high speed and high quality.

Continuous feed printing is clearly an ideal vehicle for your publishing applications.

- The speed of our 650/1300™ Continuous Feed Printer makes your document, newsletter, booklet, book and manual production fast and affordable.

- Your media options are expansive with this printer, and that expands your business opportunities. When you supply your customers with unique substrates, high-quality output and added value, you help them raise their profiles with their own customers. And you ensure they'll come back to you again and again.

- Applications can be finished in-line, near-line or off-line with more productivity and reliability so you can meet your deadlines while increasing your bottom line.

- Our FreeFlow® Print Server:
  – Is optimized to RIP efficiently and deliver high quality at high speeds for publishing workflows (PS, PDF).
  – VI Caching for more efficient RIPping of personalized workflows (VIPP®, PPML).
  – Integrates into and complements cut-sheet environments—you can route jobs to the most appropriate devices to lower your costs, minimize waste and improve your overall productivity.

Do you have novel ideas?

Short-run digital book printing tells a great story for your business. It represents a **major opportunity** for you to build your business and grow your revenues. And it's an important way you can set yourself apart from your competition.

With our 650/1300 Continuous Feed Printer, you can achieve the high-quality look and feel publishers, authors and readers demand—quickly and cost effectively:

- Our wide print web allows three-up 6" x 9" imposition to maximize your media, saving you money while boosting speed and productivity.

- Expanded media options, flat sheet output, crisp text and excellent images all contribute to professional output that matches an offset-printed book page for page—for less.

As a complement to offset, digital printing fills a valuable and lucrative niche with publishers, printers and authors by making it possible to produce more titles in shorter runs. There are many instances where digital is a cost-effective, sensible choice for books, including:

- Limited-run self-published titles
- Reprints
- Specialty editions
- Late editions
- Out-of-print books

And digital is a savvy option for publishers at the beginning or end of a book's life, when volumes are lowest.

Get bookish: why digital printing is such a wise choice.

For **publishers,** it's about the book—the content, the author, the buzz—and getting **more titles** in the marketplace at a price that allows for profit. For **printers,** it's about **volume, volume, volume**—pumping more units out the door faster to generate revenues. And for **authors,** it's about **seeing their work in print,** even if it's only in a print run of one. In contrast to traditional offset, digital book printing offers many benefits to all of these industry players and to you:

- Cost-effective short runs mean self-publishing is viable, more titles can be published and no book need ever be out of print

- No need to print, store or destroy extra copies—waste is reduced

- Fast turnaround

- Excellent imaging

- Opportunity to add variable information and personalize books

- Integrate offset color pages with monochrome and digital color pages for more sophisticated books

- Outstanding in-line finishing

- Free your offset equipment to do other, longer, more profitable jobs
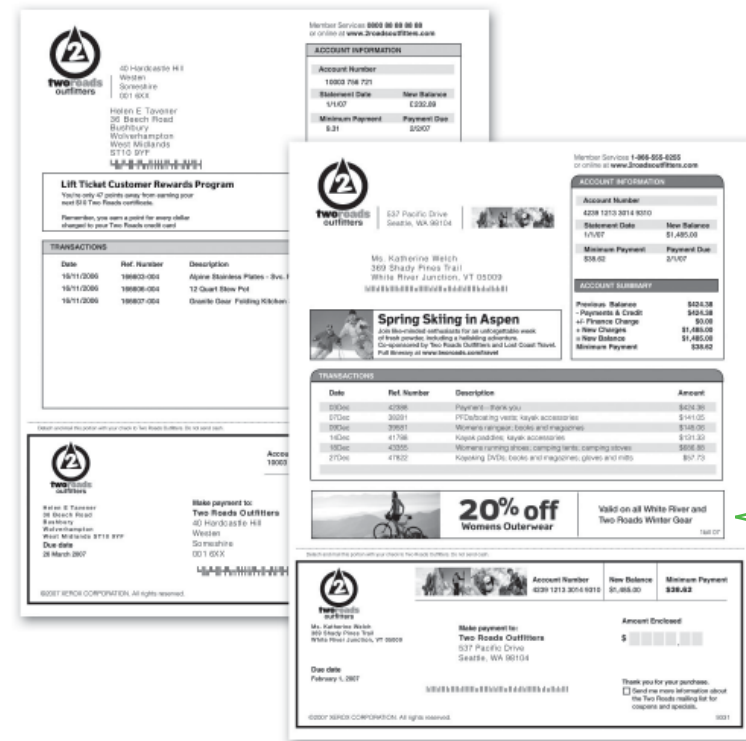
Transactional, TransPromo and direct mail

Anything but ordinary: transform your transactional communications.

Take advantage of an **enormous opportunity** to grow your business with business you already have. You can transform the monthly bills and statements you currently produce into **something special** with our 650/1300™ Continuous Feed Printer. Better imaging and output quality create better, **more effective communications**. And this printer's high speeds mean you can meet transactional's no-excuses deadlines faster. It's an easy and cost-effective way to increase sales and revenue and accelerate payment and collection for a wide range of industries.

Add promotional content to your bills and statements to increase your own sales opportunities. Or sell white space to partners who want the chance to market and sell to your customers.

Our 650/1300 Continuous Feed Printer is ideal for creating all of your transactional, TransPromo and direct mail communications because:

- It's fast, from process to print, with the power to process data and images without slowing the printer down.
- Your operators will find it extremely easy to use and easy to master.
- High image quality enables you to add impact with data-driven graphics, personalization and more.

- The integrity of your customers' data is protected with print quality that enables smaller barcodes, increased reliability through page tracking/examination, document sorting and more.
- We have the experience and tools, like FreeFlow® VI Interpreter, to help you transform your communications from transactional to TransPromo.
- Choose from a broad range of media to distinguish yourself in the market and increase response rates.
- Add MicroText to your applications and create characters as small as .6 point for crisp and clean security printing.
- Print Correlation Marks to protect your documents from being duplicated and make every document one of a kind using variable technology.

The rewards are continuous…

You can accelerate your productivity with high-quality, high-volume, high-speed monochrome. Our 650/1300 Continuous Feed Printer enables you to do business-building applications day after day, continuously! Talk to your Xerox representative today to learn more.

Your business: evolving and growing

Transactional, TransPromo and direct mail.

Our 650/1300™ Continuous Feed Printer makes it easy for you to quickly produce high-volume, time-critical applications. At the same time, it gives you everything you need to **add value** and **deliver results** for your customers.

- **Boost response rates** by adding high-quality **data-driven graphics** to bills and statements.
- **Save print costs** and **reduce postal fees** by transforming standard transactional documents into **TransPromo** communications. Turn those communications into **cost-effective sales tools** by adding personalized graphics, **promotional offers** and **marketing content**.
- Implement cost-effective **marketing campaigns** for your customers with targeted and **customized direct mail** pieces leveraging **new and exciting media**.

Publishing.

Our 650/1300 Continuous Feed Printer makes quick work of publishing applications without sacrificing image and output quality. Whether it's a communication to thousands of customers or a personalized newsletter to high-frequency shoppers, you can deliver your applications **fast** and **efficiently**, while exceeding your customers' expectations with **output quality**.
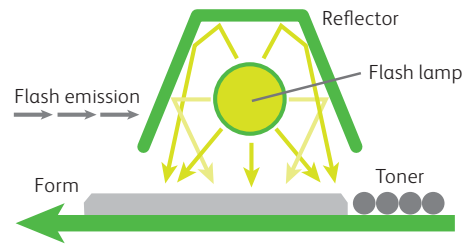
- Print documents that can be **finished more reliably** in-line or off-line due to our flash-fusing technology.
- Personalize text and graphic content to **capture attention** and **add value** to your communications.
- Deliver **high-quality output** on media that gives your customers a **competitive advantage** in their markets.

Books and Manuals.

We have the **right business model**, the **right workflow tools** and **experience**, and the **right technology** to help you succeed in the digital book printing business today.

- Deliver **high-quality text and images** in a flat output sheet for the look and feel authors, publishers and readers demand.
- Use Xerox FreeFlow® Digital Workflow Collection tools and resources **to streamline and optimize your workflow** so that files are prepared and delivered faster, with minimal or no operator intervention.
- Rely on **our tools and experienced people** to help you integrate our 650/1300 Continuous Feed Printer with your digital cut-sheet printers, as well as with your offset presses—your print shop's agility will grow as a result.

Innovative technology

Reflector
Flash lamp
Flash emission
Form
Toner

Finishing

Our 650/1300™ Continuous Feed Printer can internally stack simplex, fan-folded media for output to your off-line finishing devices. Output is also delivered directly to your in-line finishers.

Finishing is facilitated by excellent output sheet quality and sheet flatness, which are enabled by our **fine particle toner and non-contact flash-fusing** technology. Because the fuser does not come in contact with the media, sheets remain flat and retain moisture, making in-line, near-line and off-line finishing more reliable. Flat sheets produce beautiful document sets, newsletters, or book blocks for finishing.

In addition, we partner with world-class providers for in-line, near-line or off-line post-processing finishing options. You have your choice of an expansive range of such options, including roll to:

- Cut-sheet stacks (including offset stacks)
- Folded and stacked signatures
- Stitch and trim
- Binding
- Wrap
- Punch
- Perforation
- Roll
- Fan-fold

Flash Fusing and Fine Particle Toner

You will find our 650/1300 Continuous Feed Printer's unique combination of fine particle toner and non-contact flash-fusing technology will provide you with excellent images and better quality output—all while expanding your media capabilities. Here's how it works:

Fine Particle Toner

- Fine particle toner consists of small diameter particles. Toner dot patterns, which are applied within our xerographic LED imaging, are more consistent and precise in size for better edge acuity. They produce smoother round curves, no jagged diagonal lines, and exceptional halftones and solid area density.
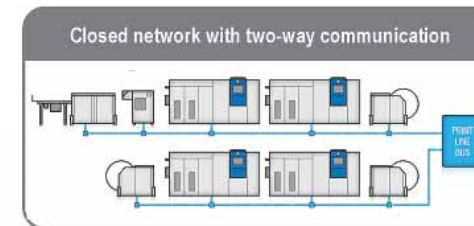- The four kilo toner can be changed on the fly to boost your productivity and uptime.

Flash-Fusing Technology

- Flash-fusing technology uses an intense burst of light energy to fuse fine toner particles to media. This technology does not require fuser oil or pressure and does not transfer energy to media, thereby allowing the media to retain its properties, with minimal shrinkage, curling or static. Because the fuser never comes in contact with the media, you can choose from a far broader range of media.
- Precise front to back registration (+/- 5mm) is enabled by flash-fusing to ensure proper positioning of content.
- Flash-fusing delivers flat output sheets that run more reliably through post-processing devices. By reducing untimely jams and costly reprints, it enhances productivity.

Print Line Management™, Print Line Bus™

Our **patented** segmentation using Print Line Management and Print Line Bus enables bi-directional communication, integration and synchronization of your entire print line, including pre- and post-production devices. Only Xerox enables your operators to:

- Quickly view, comprehend and respond to the status of each component right at the printer's graphic user interface (GUI).
- Easily set and change print line configurations to leverage multiple finishing lines. No need to rewire or power off the print line—you'll see maximum productivity.
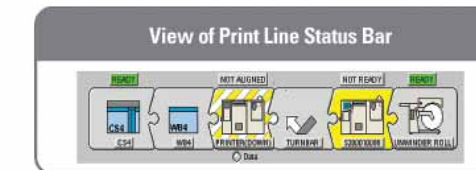
Closed network with two-way communication

Onboard Controller

Each of our 650/1300™ Continuous Feed Printer's print engines contains its own Onboard Controller. You can use it as an upstream or downstream printer instantly, with drag-n-drop ease.

Your operators can access printer functions quickly and easily through the 15" color touch screen interface—they can status and control components from one location.

- You can swiftly and efficiently receive native IPDS data streams.
- You can integrate the powerful FreeFlow® Print Server for publishing and personalized data streams.
- FreeFlow Print Server provides faster processing and VI caching support. Monochrome Specialty Imaging Text provides MicroText and Correlation Mark support for document security. Easier to use GUI gives you even more flexibility.

View of Print Line Status Bar

Feeding

Our 650/1300 Continuous Feed Printer offers tremendous stock flexibility and media latitude. **Fine particle toner and non-contact flash-fusing technology** further expand media capabilities. For example, this printer:

- Supports plain or pre-printed media input from a roll or box-fed
- Supports pinfed or pinless media
  - 17–53 lb. bond (64–200 gsm) pinless
  - 16–43 lb. bond (60–160 gsm) pinfed
- Is able to use pre-printed forms in pinless configuration (letterhead, newsletters, cards, specialty media)
- Accommodates media widths from 8" to 19.5"
- Accommodates application page lengths from 3" to 28"
- Prints at 300' per minute (91.44 meters per minute)
- Offers 19.5" print web, which provides more imposition flexibility and uses media more effectively to save costs

Note: The illustration to the left is an example of a duplex configuration (available in-line, parallel or 90 degree). Simplex and multiplex are also available. The multiplex configuration below is comprised of three engines in parallel to leverage maximum print productivity, flexibility, and redundancy.

11 Output to inline finishing	**9** Developer housing	**7** Onboard controller	**5** Xerographic LED imaging	**3** Pinfed or pinless feed	
10 Internal stacker	**8** Graphic user interface (GUI)	**6** Flash-fusing module	**4** Fine particle toner	**2** Box-fed	**1** Input from roll