

Xerox

DocuColor 2045/2060

Digital Color Press

Reference Guide

(This cover is a placeholder for a color cover)

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Changes are periodically made to this document. Technical updates will be included in subsequent editions.

Printed in the U.S.A.

Safety Notes

This Xerox digital press and the recommended supplies have been designed and tested to meet strict safety requirements. Attention to the following notes will ensure the continued safe operation of your digital press.

Electrical safety

- Use only the power cord supplied with this equipment.
- Plug the power cord directly into a correctly grounded electrical outlet. Do not use an extension cord. If you do not know whether or not an outlet is grounded, consult a qualified electrician.
- Do not use a ground adapter plug to connect this equipment to an electrical outlet that lacks a ground connection terminal.



WARNING: *You may get a severe electrical shock if the outlet is not correctly grounded.*

- Do not place the press where people may step on or trip on the power cord. Do not place objects on the power cord.
- Do not override or disable electrical or mechanical interlocks.

- Do not obstruct the ventilation openings. These openings are provided to prevent overheating of the machine.



WARNING: *Never push objects of any kind into slots or openings on this equipment. Making a contact with a voltage point or shorting out a part could result in fire or electrical shock.*

- If any of the following conditions occur, switch off the power to the machine immediately and disconnect the power cord from the electrical outlet. Call an authorized Xerox service representative to correct the problem.
 - The machine emits unusual noises or odors.
 - The power cord is damaged or frayed.
 - A wall panel circuit breaker, fuse, or other safety device has been tripped.
 - Liquid is spilled into the press.
 - The machine is exposed to water.
 - Any part of the machine is damaged.

Disconnect Device

The power cable is the disconnect device for this equipment. It is attached to the back of the machine as a plug-in device. To remove all electrical power from the machine, disconnect the power cable from the electrical outlet.

Laser safety



Use of controls, adjustments, or procedures other than those specified in this documentation may result in a hazardous exposure to laser radiation.

This equipment complies with international safety standards.

With specific regard to laser safety, the equipment complies with performance standards for laser products set by government, national, and international agencies as a Class 1 laser product. It does not emit hazardous light, as the beam is totally enclosed during all phases of customer operation and maintenance.

Maintenance safety

- Do not attempt any maintenance procedure that is not specifically described in the documentation that is supplied with your press.
- Do not use aerosol cleaners. The use of supplies that are not approved may cause poor performance of the press, and could create a dangerous condition.
- Use the supplies and cleaning materials only as directed in this manual. Keep all of these materials out of the reach of children.
- Do not remove the covers or guards that are fastened with screws. There are no parts behind these covers that you can maintain or service.

Do not perform any maintenance procedures unless you have been trained to do them by a Xerox representative, or unless a procedure is specifically described in one of the manuals included with your press.

Operational safety

Your Xerox equipment and supplies were designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

Your attention to the following safety guidelines will help ensure the continued safe operation of your digital press:

- Use the materials and supplies specifically designed for your digital press. The use of unsuitable materials may result in poor performance of the machine and possibly a hazardous situation.
- Follow all warnings and instructions that are marked on or supplied with the machine.
- Place the machine in a room that provides adequate space for ventilation and servicing.
- Place the machine on a level, solid surface (not on a thick pile carpet) that has adequate strength to support the weight of the machine.
- Do not attempt to move the machine. A leveling device that was lowered when your machine was installed may damage the carpet or floor.
- Do not locate the machine near a heat source.
- Do not locate the machine in direct sunlight.

- Do not locate the machine in line with the cold air flow from an air conditioning system.
- Do not place containers of coffee or other liquid on the machine.
- Do not block or cover the slots and openings on the machine. Without adequate ventilation, the machine may overheat.
- Do not attempt to override any electrical or mechanical interlock devices.



WARNING: *Be careful when working in areas identified with this warning symbol. These areas may be very hot and could cause personal injury.*

If you need any additional safety information concerning the machine or materials, contact your Xerox representative.

Ozone safety

This product produces ozone during normal operation. The ozone is heavier than air, and the quantity is dependent on print volume. Providing the correct environmental parameters, as specified in the Xerox installation procedures, ensures that concentration levels meet safe limits.

If you need additional information about ozone, request the Xerox publication, *OZONE*, 600P83222, by calling 1-800-828-6571 in the USA. For a French language version, call 1-800-828-6571 in the USA, then press 2.

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Notices

Radio Frequency Emissions

FCC in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Changes or modifications to this equipment not specifically approved by the Xerox Corporation may void the user's authority to operate this equipment.

Shielded cables must be used with this equipment to maintain compliance with FCC regulations.

In Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as defined in the Radio interference regulations of Industry Canada.

Safety Extra Low Voltage Approval

This Xerox digital press is in compliance with various governmental agencies and national safety regulations. All system ports meet the Safety Extra Low Voltage (SELV) circuits for connection to customer-owned devices and networks. Additions of customer-owned or third-party accessories that are attached to the press must meet or exceed the requirements listed above. All modules that require external connection must be installed per the installation procedure.

Certifications in Europe



The CE marking that is applied to this product symbolizes Xerox Europe's Declaration of Conformity with the following applicable Directives of the European Union as of the dates indicated:

January 1, 1995: - Council Directive 73/23/EEC amended by Council Directive 93/68/EEC, approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: - Council Directive 89/336/EEC, approximation of the laws of the member states related to electromagnetic compatibility.

Changes or modifications to this equipment not specifically approved by Xerox Europe may void the user's authority to operate the equipment.

Shielded cables must be used with this equipment to maintain compliance with the EMC Directive 89/336/EEC.

This equipment is not primarily intended for use in a domestic environment.

A full declaration, defining the relevant Directives and referenced standards, can be obtained from your Xerox Europe representative.



WARNING: *In order to allow this equipment to operate in proximity to Industrial, Scientific and Medical (ISM) equipment, the external radiation from ISM equipment may have to be limited or special mitigation measures taken.*



WARNING: *This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.*

It's Illegal in the USA

Congress, by statute, has forbidden the reproduction of the following subjects under certain circumstances. Penalties of fine or imprisonment may be imposed on those guilty of making such reproductions.

1. Obligations or Securities of the United States Government, such as:

Certificates of Indebtedness	National Bank Currency
Coupons from Bonds	Federal Reserve Bank Notes
Silver Certificates	Gold Certificates
United States Bonds	Treasury Notes
Federal Reserve Notes	Fractional Notes
Certificates of Deposit	Paper Money

Bonds and Obligations of certain agencies of the government, such as FHA, etc.

Bonds. (U.S. Savings Bonds may be photographed only for publicity purposes in connection with the campaign for the sale of such bonds.)

Internal Revenue Stamps. (If it is necessary to reproduce a legal document on which there is a canceled revenue stamp, this may be done provided the reproduction of the document is performed for lawful purposes.)

Postage Stamps, canceled or uncanceled. (For philatelic purposes, Postage Stamps may be photographed, provided the reproduction is in black and white and is less than 75% or more than 150% of the linear dimensions of the original.)

Postal Money Orders.

Bills, Checks, or Drafts of money drawn by or upon authorized officers of the United States.

Stamps and other representatives of value, of whatever denomination, which have been or may be issued under any Act of Congress.

2. Adjusted Compensation Certificates for Veterans of the World Wars.
3. Obligations or Securities of any Foreign Government, Bank, or Corporation.
4. Copyrighted material, unless permission of the copyright owner has been obtained or the reproduction falls within the "fair use" or library reproduction rights provisions of the copyright law. Further information of these provisions may be obtained from the Copyright Office, Library of Congress, Washington, D.C. 20559. Ask for Circular R21.
5. Certificates of Citizenship or Naturalization. (Foreign Naturalization Certificates may be photographed.)
6. Passports. (Foreign Passports may be photographed.)
7. Immigration Papers.
8. Draft Registration Cards.
9. Selective Service Induction Papers that bear any of the following Registrant's information:

Earnings or Income

Dependency Status

Court Record

Previous military service

Physical or mental condition

Exception: United States military discharge certificates may be photographed.

10. Badges, Identification Cards, Passes, or Insignia carried by military personnel, or by members of the various Federal Departments, such as FBI, Treasury, etc. (unless photograph is ordered by the head of such department or bureau.)

Reproducing the following is also prohibited in certain states:

Automobile Licenses - Drivers' Licenses - Automobile Certificates of Title.

The above list is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your attorney.

It's Illegal in Canada

Parliament, by statute, has forbidden the reproduction of the following subjects under certain circumstances. Penalties of fines or imprisonment may be imposed on those guilty of making such copies.

1. Current bank notes or current paper money.
2. Obligations or securities of a government or bank.
3. Exchequer bill paper or revenue paper.
4. The public seal of Canada or of a province, or the seal of a public body or authority in Canada, or of a court of law.
5. Proclamations, orders, regulations or appointments, or notices thereof (with intent to falsely cause same to purport to have been printed by the Queen's Printer for Canada, or the equivalent printer for a province).
6. Marks, brands, seals, wrappers or designs used by or on behalf of the Government of Canada or of a province, the government of a state other than Canada or a department, board, Commission or agency established by the Government of Canada or of a province or of a government of a state other than Canada.
7. Impressed or adhesive stamps used for the purpose of revenue by the Government of Canada or of a province or by the government of a state other than Canada.
8. Documents, registers or records kept by public officials charged with the duty of making or issuing certified copies thereof, where the reproduction falsely purports to be a certified copy thereof.
9. Copyrighted material or trademarks of any manner or kind without the consent of the copyright or trademark owner.

The above list is provided for your convenience and assistance, but it is not all inclusive, and no liability is assumed for its completeness or accuracy. In case of doubt, consult your solicitor.

Environmental Notices for the USA



As an ENERGY STAR® partner, Xerox Corporation has determined that this digital press model meets the ENERGY STAR® guidelines for energy efficiency.

ENERGY STAR® is a US registered trademark.

The ENERGY STAR program is a team effort between the Environmental Protection Agency and the office equipment industry to promote energy-efficient personal computers, monitors, printers, digital presses, fax machines and copiers. Reducing the energy consumption of this equipment will help combat smog, acid rain and long-term changes to the climate by decreasing the emissions that result from generating electricity.

Environmental Notices for Canada



As a participant in the Environmental Choice program, Xerox Corporation has determined that this digital press model meets the Environmental Choice guidelines for energy efficiency.

Environment Canada established the Environmental Choice program in 1988 to help consumers identify environmentally responsible products and services. Copier, printer, digital press, and fax products must meet energy efficiency and emissions criteria, and exhibit compatibility with recycled supplies. Currently, Environmental Choice has more than 1600 approved products and 140 licensees. Xerox has been a leader in offering EcoLogo approved products. In 1996, Xerox became the first company licensed to use the Environmental Choice EcoLogo for its copiers, printers, and fax machines.

Conventions

Standardized conventions have been used in this manual to assist you in visually locating and identifying information quickly.

Symbols



CAUTION: *This symbol alerts you to an action that may cause damage to hardware and/or software, or the loss of data.*



WARNING: *Warnings alert you to an action that may cause bodily injury.*



WARNING: *This symbol identifies an area on the machine that is **HOT** and may cause burn injuries.*



WARNING: *This symbol indicates a laser is being used in the machine and alerts you to refer to the appropriate safety information.*



KEY POINT: *This symbol identifies information that is being emphasized and is important for you to remember.*



1

The 1 2 3... symbol indicates the beginning of a task or work process you should use to complete a procedure and is followed by the first step of a numbered procedure, task, or work process.

2

3



NOTE: *This symbol calls your attention to information that is helpful, but not essential to complete a procedure or task.*

Writing Style Conventions

- **Bold** type indicates the name of a button to press or touch.
- Underlining is used to emphasize a word or term.
- Italic type is used for the text associated with symbols such as Cautions, Notes, Key Points, etc. to visually bring the information to your attention.
- Italic type is also used to indicate names, such as the name of a chapter, or the name of a screen.
- Procedures direct you to press buttons located on the Control Panel, and touch buttons located on the Touch Screen.
- Text referring to illustrations or screen samples precedes the image.

1. About Color Printing

Overview

Traditional offset printing requires time, people, materials, and many steps to produce quality color output. Digital technology is changing the way the printing industry works. All the steps that used to be performed for offset printing have now been digitized and can be performed on your computer. The DocuColor 2045 and 2065 digital color presses make it possible for you to print fast, offset-quality images.

The flexibility and control offered by digital technologies and software applications can give you excellent results. Understanding the variables that affect the output image quality, such as the quality of an original that is scanned into a computer, resolution, color management, imaging technology and a variety of other factors, are some of the things you need to understand in order to maximum your results.

To help you use all this new digital desktop technology, this chapter provides you with information about how to produce color images that will give you high quality output prints.

Image Quality

When creating a document with color images, you first need to understand the capabilities, strengths and weaknesses of the software you are using. This applies to both the PC and Mac platforms of software such as QuarkXPress®, Adobe FrameMaker®, Adobe Illustrator®, Macromedia FreeHand®, and Adobe Photoshop®, to mention just a few of the applications available in the marketplace today. Having a thorough knowledge of these programs will assist you in setting up your files correctly.

Quality Starts with the Original

Whether your original image is a scanned transparency, photograph or digital file, the image characteristics you start with will have a major impact on the end results. As an image goes through the production process, it is displayed in many different ways: as digital information in the scanned image file; as pixels of red, green and blue (RGB) light on the computer screen; as dots of cyan, magenta, yellow and black (CMYK) dry ink/toner on paper. During each step of the process, the colors of the original are transformed to meet the needs of these different technologies and the output media.

How Input Determines Output

Successful reproduction of color images depends on a number of factors, starting with the differences in how the various technologies that impact the image translate and display the color.

Scanners

Scanners are able to capture colors only as red, green, and blue (RGB). There are two different types of scanners in use today: drum and flatbed scanners. A flatbed scanner does not have as much color range as that of a drum scanner.

- A drum scanner uses a photomultiplier tube (PMT) that is very sensitive and accurate. The original document is attached to the drum which is rotated past a group of sensors; one each for red, green, and blue, and a fourth that sharpens the digital image. An internal computer usually performs the RGB to CMYK (cyan, magenta, yellow, black) conversion.
- Flatbed scanners use a less expensive and less accurate charge coupled device (CCD) sensor. The original is placed on a flat glass surface and the array of CCD sensors pass by the original collecting the red, green, and blue data. RGB to CMYK conversion is usually performed on a computer workstation.



KEY POINT: *The resolution at which the image is initially scanned and digitized determines the quality of the final output, and limits the degree to which the image can be enlarged without loss of final printed quality.*

Image Key

Low Normal High - ART

Some scanners, especially low-end desktop models, tend to compress the tonal range of an image and increase the contrast or difference between light and dark areas. If the contrast of your original is too high or too low, detail could be lost when it is reproduced. Images that have few dark areas or shadow tones are called *high key*. In contrast, a *low key* image consists of large areas of shadow and darker midtones (the tones that fall in between).

Some scanners offer manual adjustments to allow you to override automatic exposure controls in those cases where the images intentionally have these characteristics.

Imaging software applications use histograms or graphic displays to show the distribution of pixels inside the different tonal ranges of an image.

Grain/Image size

The size of an original scanned image is also important to the clarity of the output image. If an image is enlarged too much, the image's grain may become obvious, detracting from the image quality. In digital photographs, the grain introduced by scanning limits how large an image can be successfully enlarged.

The guidelines below show the maximum recommended enlargement for a few standard sizes. **Need some UK sizes in chart.**

Original Size	Print Size
35mm film	8.5" x 11"
4" x 5"	11" x 17"
8" x 10"	24" x 36"

Getting the Color You Expect

Our eyes are sensitive enough to perceive thousands of different colors in the spectrum of visual light - including many colors that cannot be displayed on a color monitor. The color range, or color gamut, that can be printed with toner and inks is even more limited.

This is especially important when you consider how different technologies and output devices use light to reflect color images versus what we see on a printed page. As colors move from the scanner to the screen to the printer, they are converted from one color model to another - so you don't get in print exactly the same colors you see on the screen.

For this reason, when you are designing for printed output, you always need to think about what can be reproduced with toner on paper and not what you see on your monitor.

Monitors Computer monitors work with energized phosphors that glow red, green, or blue on the face of a picture tube. If accurate color reproduction is important to you, your monitor should be calibrated on a regular basis. Calibration adjusts and corrects the monitor's gamma, white and black points, and color balance. Monitors display color with impressive accuracy, but can never match the printed page perfectly because of the physics of color involved. Monitors display additive color space, and printing devices use CMYK, which is subtractive color space.

Printers and presses Printing is based on the subtractive color process. Cyan, magenta, and yellow dry ink/toner is placed on white reflective paper. Each then absorbs, or subtracts, its opposing counterpart from the reflected white light. This process controls the amount of red, green, and blue light that is reflected from the white paper. The CMYK colors are printed as layers of halftone dots in varying sizes and angles to create the illusion of different colors. The varying dot sizes creates an effect similar to varying the intensities of a monitor's red, green and blue phosphors.

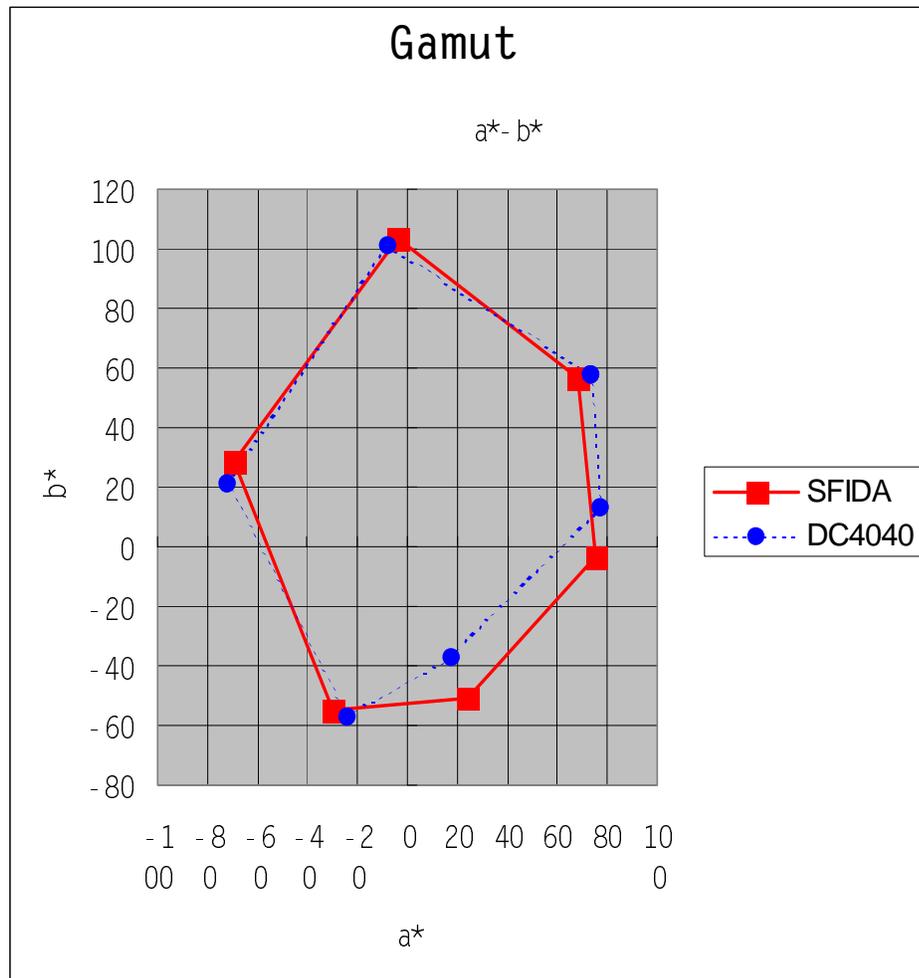
Media The paper used for printing has a significant effect on color reproduction. Paper reflects unabsorbed light back to the eye of the viewer. Therefore, the more reflective the surface of the paper, such as coated paper, the wider the range of colors that can be produced.

Refer to the *Color Materials Usage Guide* included in your Customer Documentation package for more information on how paper influences image quality.

Color Gamut

A color gamut is a range of colors. The gamut that the human eye can see is much larger than can be produced in a photograph. The photograph gamut is much larger than that of an RGB monitor. The RGB monitor gamut is larger than the CMYK gamut of a Xerox DocuColor system press. The CMYK gamut of offset printing is significantly less than that of a Xerox DocuColor system.

Color Models



ABOUT COLOR PRINTING

ART

Video technology (computer monitors, scanners and television screens) see color as transparent light and use an RGB model to display colors. In order to display appropriately on this technology, captured images are broken down into pixels (picture elements) that can be projected as rays of red, green and blue light.

ART

Printers see color as reflective light which reacts much differently on hardcopy

printed images and bounces off non-transparent surfaces. In this case colors are translated into combinations of cyan, magenta, yellow and black, using a CMYK color model, to get true colors.

Adding and Replacing Gray to Improve Color

There are certain limitations to the ability to achieve the exact colors when converting from RGB (for video display) to CMY (for print). For example, CMY pigments aren't capable of producing consistent black or gray tones.

To compensate in cases where the three ink or toner colors overlap heavily, software applications automatically reduce varying percentages of cyan, magenta and yellow to enhance image quality and improve printability. This technique is known as undercolor removal, or UCR, where black ink is used to replace cyan, magenta, and yellow ink in neutral areas only (that is, areas with equal amounts of cyan, magenta, and yellow). This results in less ink and greater depth in shadows. Because it uses less ink, UCR is generally used for newsprint and uncoated stock

Another form of undercolor removal is called Gray Component Replacement (GCR). To compensate for the neutral or grey tones created during the conversion process, black ink is used to replace portions of cyan, magenta, and yellow ink in colored areas as well as in neutral areas. GCR separations tend to reproduce dark, saturated colors somewhat better than UCR separations do and maintain gray balance better on press.

Color Management

Since the color on a screen differs from that produced by the printer, it is necessary to have a Color Management System (CMS) in place. The Color Management System identifies and bridges the gap of the RGB and CMYK color spaces (profiles or characterizations) belonging to your monitor, printer and scanner. Mac and MAC-OS- compatible computers provide Apple ColorSync for implementing and handling the profiles of these devices. Refer to your PC operator's manual for the compatible CMS for your system.

Without a color management system in place, the same image will produce different results from device to device due to inconsistencies in color gamuts.

With a color management system in place, consistent results from monitor to final output are ensured by aligning the color gamuts used by different devices.

Halftone Dots and Screen Angles

Continuous Tone Art

An original photograph, called continuous tone art, is made up of solid shades of gray or color that blend so smoothly that it's nearly impossible to see where one color stops and another begins.

Halftone screens

To produce continuous tone images on an output device, bitmaps and process color graphics must be broken into a series of dots of various sizes and colors. This is called creating a halftone screen. Halftone screens use combinations of cyan, magenta, yellow and black dots at different screen angles to form a four-color image out of symmetrical rosette patterns.

Halftone Dots

Halftone cells are combinations of spots that create a printed dot. The dots shown here demonstrate different print resolutions. The illustration on the left contains 25 possible printer dot cells which can create different gray values. The illustration on the right contains 256 printer dot cells allowing for a greater range of grays. To print a visually convincing halftone image, you need at least 150 shades of gray.

Halftone Dot Shapes

Because toner reacts differently to different paper surfaces, the characteristics of your paper generally determine the screen ruling you should use (i.e., toner tends to spread on rough, absorbent grades of paper). In this scenario, a low screen ruling is suggested to allow for dot swelling. Selecting different dot shapes can enhance and improve output quality.

Electronic Digital File

Change in Image Data from Scan to Print

Calibration

Calibration is the process that fine tunes your equipment by adjusting images to overcome the differences in the way cameras, scanners, monitors, and color printers display colors. Reasons to calibrate include:

- Different technologies use different color models to define color.
- Color will display differently on identical models produced by the same manufacturer.
- The temperature of machinery as it warms up will affect color intensity.
- Image quality and color reproduction on uncalibrated equipment will result in unpredictable, unreliable results.

In order to properly predict, manage, and minimize color variables, hardware and software must be adjusted before [production begins, allowing data to be read within different color models, or by different systems.



Need steps from JoAnne

Digital Image Considerations

Sizing

When enlarging an image the pixels or cells may become visible. This can be corrected by adding pixels.

Sharpening

When converting or scanning an RGB image to a CMYK image, the image may become fuzzy. Use the sharpen option to enhance the clarity of the image.

Color Cast

Color cast can be added or removed by adding black, white or shades of gray points.

Important Additional Tips

- Know what file format is needed.
- Know if all calibration of equipment has taken place to produce optimum output.
- Include all files, fonts and linked art.
- Determine the optimum way to store your data for reprint capability.
- Determine whether the data can be compressed for storage without degrading print quality to unacceptable levels. If quality is unacceptable after compression, consider storage methods that do not require compression.

Output Considerations

Moire Patterns

When process color images are printed, the halftone screens should overlap to create a symmetrical rosette program. If the screens print at the incorrect angle, or if the paper shifts as it passes through the output device, a moire pattern will be created which disrupts the continuous tone image.

Mottle

Mottling is uneven spotty toner coverage which occurs when printing large, solid areas of flat color. Paper choice can be critical in avoiding this problem.

Registration

Trapping or overprinting can compensate for gaps or shifts as the paper passes through the printing cycle.

Trapping

Trapping is a technique in which adjacent colors slightly overprint each other to help minimize the effects of possible misregistration.

Halo

Haloes are a light area around an object that can occur when printing a darker color dry ink or toner on a lighter color dry ink or toner background. Using a pastel or gray paper when printing will avoid this problem.

Solids

Uneven or spotty dry ink or toner coverage can occur when printing large solid areas of color. Color choice, paper choice and the condition of the paper can be crucial in producing quality solid color.

Trail Edge Deletions

Opacity

Opacity is a measure of how much light can pass through paper. When duplexing choose a paper with high opacity so the print from side 1 will not show through to side 2.

Anti-aliasing

A graphics software feature that eliminates or softens the jaggedness of low resolution curved edges.

Knockout

A shape or object printed by removing (knocking out) all underlying colors.

Overprint

Allowing an element to print over the top of underlying element, rather than knocking them out. Often used with black text.

Duplex Settings Tumble

To ensure that the image orientation is correct on both sides of the page the correct tumble must be indicated. If the tumble setting is incorrect, your document could print with the image data on one side of the page rotated 180°.

File Formats

Object oriented images are defined in an equation of lines, curves, and color filled shapes, providing flexibility to move or change parts of the image.

Pixel based bitmapped images are built of tiny square dots, or picture elements called pixels. Viewed from a distance, the dots blend to form a unified picture.

Check the DFE section of your User Guide to determine the best file format (tif (pixel), pct (object), eps (object), ps (object), bmp (pixel), cgm (object), etc.) that works well with your software and print drivers. Format choice can mean the difference between clear concise art and fuzzy, jagged, low quality art.

Resolution

PC monitors have a resolution of 72 dpi. The SFIDA has a print capability of 600 dpi.

Digital Front Ends

Digital front ends (DFEs) are prepress workstations that are connected to your network and drive color output devices. Each time an image is sent to a PostScript printer, the DFE connected to the printer converts, or rasterizes, the image into dots which can be printed by the target output device. Each dot is assigned a specific location and color. Another term for this rasterizing process is RIP (Raster Image Processor).

DFEs optimize a document's color by manipulating the dots which make up the image. Depending on your average output requirements, there are a wide range of DFEs to choose from. For example, some have been designed to best handle graphic arts applications, typically consisting of short runs or complex, image filled documents; while others are more efficient for high end print production environments.

Image quality functions typically associated with DFEs:

- Pre-flight checks ensure that all images and fonts have been provided for printing.
- RIP while print allows the DFE to concurrently submit pages to the output device while processing new images for printing.
- Automatic trapping operates independently of page layout programs, allowing for trapping to be set specifically for the output device.
- Advanced text and line art quality controls provide anti-aliasing capabilities

for high quality text and graphics.

- Color Management facilitates optimizations of images and offset ink/toner simulations.
- Document storage keeps the RIPed file resident on the DFE for future processing.

For further DFE information, refer to the DFE section of your User Manual.

Understanding Xerographic Limitations

Get from Warren

Media

Dawn has

Finishing

There are two types of finishing. The finishing that your SFIDA can do and the preparation for finishing other than what the SFIDA can perform.

The finishing options for the SFIDA are the Offset Catch Tray (OCT), which offsets sets for easy separation, or the High Capacity Stacker which collates and offsets stacks received from the printer.

To prepare output for finishing other than what the SFIDA can perform, you must first understand the various folding techniques, binding methods and finishing touches available. You must also have software such as DK&A, Ultimate Technographics, Scenicsoft, Press Wise, etc. to enable you to correctly prepare the document for output.

Folding Techniques

Parallel Fold

A parallel fold means that the paper is folded parallel to the papers edge, no matter if the fold is made parallel to the long edge or the short edge of the paper.

Right angle Fold

A right edge fold takes the parallel fold one step further. It simply means that a fold falls at a right angle to the previous fold.

Accordion Fold

An Akkadian fold is when two or more parallel folds are made in reversing directions.

Gate Fold

Gate folds are useful for brochures and book covers because they create a pair of foldouts, which can be imaged upon.

Binding Preparation

Nested Signature and Binders Creep

The effects of binders creep are most obvious when thick paper is folded or multiple signatures are nested with each other. After trimming, the innermost signatures will have a smaller page size than the outermost.

Gathered Signature

Gathered signatures are folded, placed on top of one another, and bound together. This process minimizes the affects of binders creep.

Bottling

Bottling occurs when signatures are not folded at precise right angles.

Binding Methods

Saddle Stitching

Saddle Stitching is accomplished using a stapler or a high speed binding machine that inserts, bends, and cuts thin wire through the spine of a document. This wire leaves the document looking like it has been stapled. The maximum sheets of paper that can be saddled stitched is 32.

Perfect Binding

Providing an unprinted area on the inside cover of a perfect bound book gives an area for the glue to adhere to and allows it to wrap around some of the inside pages.

Mechanical Binding

Mechanical binding allows pages to be flat, so it is often used for technical manuals, notebooks, and calendars.

Looseleaf Binding

Looseleaf bindings are ideal for documents that undergo frequent updates because pages can be inserted and removed easily.

Final Finishing Touches

Die Cutting

In die cutting, shapes are cut out of a page with sharp knives. It is most often used to create attention getting documents, or for packaging with unique shapes, like video box covers.

Lamination

Laminated documents are encased in a thin, washable plastic coating to protect frequently handled documents from the elements and human wear and tear.

Varnish

Varnishing protects documents from the elements and can also be used as a design to enhance a document. Depending on the desired effect, gloss or matte (dull) varnish can be applied to an entire document (flood coverage) to give it a smooth overall finish, or specific portions of a page (spot coverage) to highlight some parts of the document while de-emphasizing others.

Embossing

When a document is embossed, it is pressed between two dies (or molds) to create a raised or lowered texture on the sheet. This works best on uncoated cover weight papers.

Screening

Get from Warren

Solid background printing

Uneven or spotty dry ink or toner coverage can occur when printing large solid areas of color. Paper choice can be crucial in producing quality solid color.

How much toner can you lay down
w/o defects?

Total toner coverage?

Size difference (covered area)?

Imperfection?

Do different papers affect solid backgrounds?

Rafael

2. Overview

The DocuColor 2045/2060 is a full color/black & white digital press operating at a speed of 60/45 prints per minute. This chapter describes the location, name, and function of the various digital press components. The following digital press components are discussed:

- External parts
- Internal parts
- Control panel
- Information system
- Optional equipment
 - Tray 4
 - High Capacity Stacker

Identifying the external parts

Use the illustration below to identify components of the external parts listed in the table.



Figure 1. Key external parts of the digital press

Part	Description
Paper Tray 1	Holds 550 sheets of paper of 24 lb. (90 g/m ²) paper.
Paper Tray 2	Holds 550 sheets of paper of 24 lb. (90 g/m ²) paper.
Paper Tray 3	Holds 2000 sheets of paper of 24 lb. (90 g/m ²) paper.
Upper Door	Paper Path transports paper from the Paper Trays to the Transport Module.
Transport Module	The Transport Module carries the paper from the paper trays to the upper paper path of the Printing Module. It also routes the paper from the Lower paper path of the Printing Module to the upper paper path of the Printing Module when duplexing.

Part	Description
ON/OFF	<p>Press the Power Switch to the On position to switch the digital press on.</p> <p>A screen message advises of a short wait while the Fuser warms up and the digital press runs a system check. You can program the digital press for a job during this time and the printing process will start automatically when the digital press is ready.</p> <p>Press the Power Switch to the Off position to switch the digital press off.</p> <p>Allow the digital press to remain off for a minimum of 15 seconds before switching the power on again.</p>
Touch Screen	Allows selections to be made by simply touching the screen.
Control Panel	Allows keypad selection of features. Refer to the Control Panel section in this chapter.
Dry Ink/Toner Compartment	Contains the Dry Ink/Toner cartridges.
Offset Catch Tray (OCT)	Receives completed printed documentation. Sets are offset for easy separation. Maximum capacity is 500 sheets of 24 lb. paper.
Right/Left Front Doors	<p>Open to clear jams in the paper path in the Printing Module and at the Fuser. Follow the instructions precisely for clearing a jam in the Fuser.</p> <p>CAUTION: <i>The Fuser is extremely hot and will cause injury if instructions are not followed.</i></p>
Exit Module	Unit contains the decurler and the inverter. The decurler takes any curl out of the printed page. The inverter is used when duplexing or face down output is selected.
GFI Circuit Breaker	Not shown in Figure 1, refer to Figure 6. This device trips if an interruption is detected in the power to the digital press.



Upper Door

The Upper Door paper path transports paper from Trays 1, 2 and 4 to the Transport Module.

Identifying the internal parts



Dry Ink/Toner Compartment

The Dry Ink/Toner Compartment. The colors from left to right are black, cyan, magenta and yellow. Refer to the System Administration Guide for instructions on changing the cartridge.

Transport Module



Figure 2. Transport Module

The upper paper path in the Transport Module carries the paper from the Paper Trays to the upper paper path of the digital press.

The lower paper path in the Transport Module carries the paper from the lower paper path in the digital press to the upper paper path in the digital press when duplexing.

Paper Path in the Digital Press

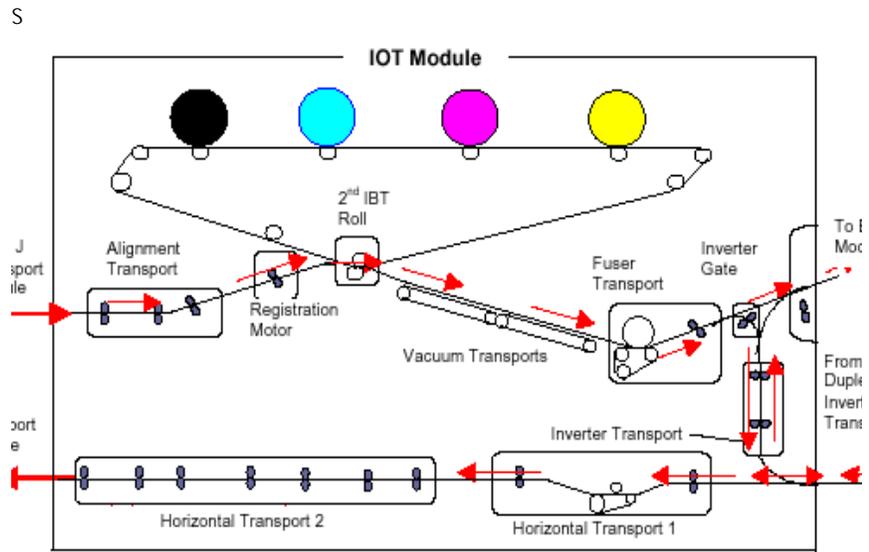


Figure 3.

The Paper Path in the Digital Press transfers image to paper and fuses it for both the simplex and duplex selections. It has two areas, the upper Paper Path and the lower Paper Path. The upper Paper Path is used for both simplexing and duplexing. The lower Paper Path is used for duplexing only.

Exit Module

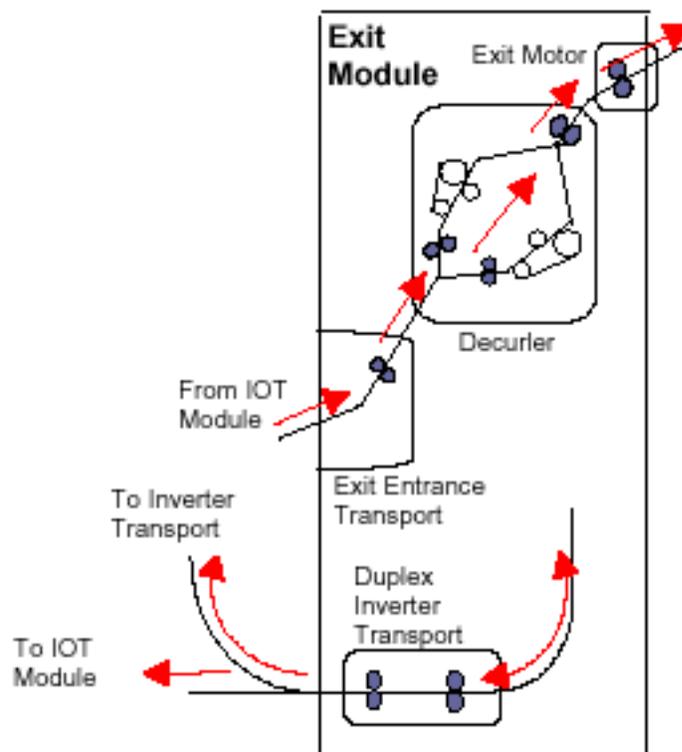


Figure 4. Exit Module

The decurler removes the curl from the paper that occurs during the fusing process as it exits the digital press.

The inverter turns the paper over so that side 2 can print when duplexing or when face down output is selected.

Toner Waste Bottle



Figure 5. Toner Waste Bottle

The toner waste bottle collects all waste toner in the printing process.

NEED PHOTO

Figure 6. Ecology Module

The Ecology Module connected to the back of the DocuColor 2045/2060 contains the environmental components (ozone and dust filters). This module is maintained by the Xerox Customer Representative.



CAUTION: *Do not place containers of coffee or other liquids on top of the Ecology Module.*

Electrical Module



Figure 7. Electrical Module

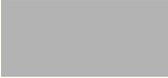
The Electrical Module houses the software and
It is imperative that nothing block the vents of the electrical module. Excessive heat buildup may damage the DocuColor 2045/2060.

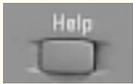
Control Panel

Use the illustration below to identify components of the Control Panel. The function of each numbered component is described in the table on the following pages. The only features available for the digital press configuration of the DocuColor 2045/2060 are Job Status and Machine Status.



Figure 8. DocuColor 2045/2060 Control Panel

No.	Name		Function
1	Touch Screen		Displays the choices available for various features and digital press status messages. To make a feature selection, touch the appropriate button on the screen.
2	Features	 	Displays the default screen containing the Basic Features, Added Features, Image Quality, and More tabs.
3	Power Saver	 	Puts the digital press in a standby status, where the Fuser temperature is lowered.
4	Job Status	 	Gives a list and current status of all jobs submitted. You can also hold, release, promote, delete and see the details of each job in the digital press queue.
5	Dual Language	 	Alternates between two programmed languages.
6	Access	 	Password protected. Allows access to the Tools Pathway, the Auditron Administration Pathway and the Technical Key Operator (TKO) Pathway.

No.	Name	Function
7	Machine Status	<p>Gives the status of the Paper Trays, Machine Details, Error Log and Maintenance.</p> <p>Machine Status is where you find the serial number for the DocuColor 2045/2060, the service phone numbers and the meters that show the page count for full color, black and white, oversized and total prints.</p>
		 
8	Review	Displays the choices that have been selected.
		 
9	Help	Additional information useful in completing a task is displayed.
		 
10	Clear All	Clears all programming and returns the digital press to the default settings. Clear Memory cannot be used while printing is in progress.
		 
11	Interrupt	<p>Interrupts the printing in process to allow a priority job to be copied. The Interrupt indicator lamp lights up. Press the Interrupt button after the job is completed to return to printing the previous job.</p> <p>Interrupt cannot be selected while using the Poster feature.</p> <p>While running a job in Interrupt, Define Area in the Document Type/Dark Edges feature cannot be selected. Also, Stored Jobs and Special Features cannot be used while running a job in Interrupt.</p>
		 

No.	Name		Function
12	Pause	 	Press the Pause to stop the printing process.
13	Start	 	Press the Start button to start the printing process.
14	Keypad		Allows you to enter your password and the desired number of copies.
16	C		Press the C (Clear) button to return the selected quantity to 1.

Table 1.

Job Status



Name	Function
Job List	Shows all jobs submitted to the digital press
Hold	Prevents a job from printing until released.
Release	Reactivates held job to print status
Promote	Enables a job to be moved in front of other jobs in the queue.
Delete	Deletes a selected job.
Details	Shows the specifications chosen for a job.
Up/Down Arrows	Enable scrolling through job list.

Machine Status



Name	Function
Paper Trays	Shows the level, weight and size of the paper in the trays.
Machine Details	Displays the customer support number, the serial number, software version, system configuration, and access to the meters.
Error Log	Shows all error codes to assist in solving problems with the DocuColor 2045/2060.
Maintenance	Displays the status of the different toners, waste toner, Fuser Oil, Fuser Web, and Fuser Web Heat Roller.

Alert screens

- Alert: An Alert screen is displayed when a consumable product, such as Dry Ink/Toner, needs to be replaced, or when the digital press is unable to make copies because of an existing condition, such as an empty paper tray.
- Pause: A pause screen has a red bar at the top of the screen
- Fault: A Fault screen is displayed when the digital press has a paper jam or when an internal system problem occurs.
- Trouble: A trouble screen has a red bar at the top of the screen.

GFI Circuit Breaker

The DocuColor 2045/2060 is equipped with an additional safety circuit breaker. This device trips if a fault is detected in the power to the digital press.



Figure 9. GFI Circuit Breaker

If power to the digital press is interrupted, do the following:

- Locate the circuit breaker on the back of the digital press on the electrical module next to the toner waste bottle.
- If the device has been tripped, the switch will be in the Off position (down). Flip the switch up.
- If the device interrupts power to the digital press again, or if power has not been restored by the above procedure, call your Xerox service representative.

The digital press should be powered on as soon as possible after the power is restored and a print should be made to ensure that no damage to the DocuColor 2045/2060 has occurred.

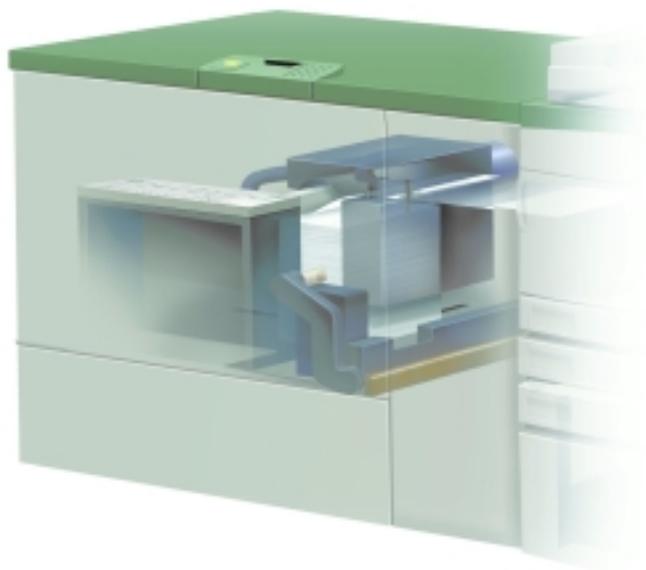


CAUTION: *The Pressure Pad remains in a cammed-up position if power to the digital press is interrupted while the digital press is in use. The Pressure Pad will not be released from this position until the power is restored, the Power Switch is in the On position, and the Start button is pressed.*

If the Pressure Pad remains in the cammed-up position for a prolonged period of time, print quality defects will occur.

Accessories

Tray 4



The Tray 4 is an optional Paper Tray with a capacity of 2500 sheets of 24 lb. (90 g/m²) paper. If you have a Tray 4, refer to the Tray 4 chapter in this manual.

High Capacity Stacker (HCS)



The High Capacity Stacker provides stacking and offsetting capabilities for output. If you have a HCS, refer to the operator manual that came with your HCS for operating instructions.

3. Paper and Paper Trays

Recommended papers and special materials

Refer to the Color Materials User Guide for paper guidelines.

Paper handling

For the best performance load paper with the seam side (the side where the ream of paper is sealed) down in Trays 1 and 2 and seam side up in Trays 3 and 4.

There are many factors that affect the performance of paper including room temperature, humidity, paper quality, dust, and the size of the image area. If jams or paper curl problems consistently occur after loading the paper, remove it from the paper tray, turn it over, place it back in the paper tray and resume printing. If the problem is rectified, continue to load your paper in the same manner. If the problem is not rectified, load a new ream of paper and try the process again. If the problem still persists, call your Xerox representative.

For reliable digital press operation and good print quality, Xerox recommends the following:

Store paper:

- on a flat surface
- in a low dust area
- in a low humidity area
- in an airtight moisture proof container

Limitations

Each RIP has its own paper specifications. Refer to the User Guide that comes with your RIP for paper size and weight capabilities.

Paper Trays 1, 2, 3 and 4



Figure 10. Trays 1, 2 and 3

Paper Trays 1, 2, and 3 are standard Paper Trays and hold the paper supply for the DocuColor 2045/2060.

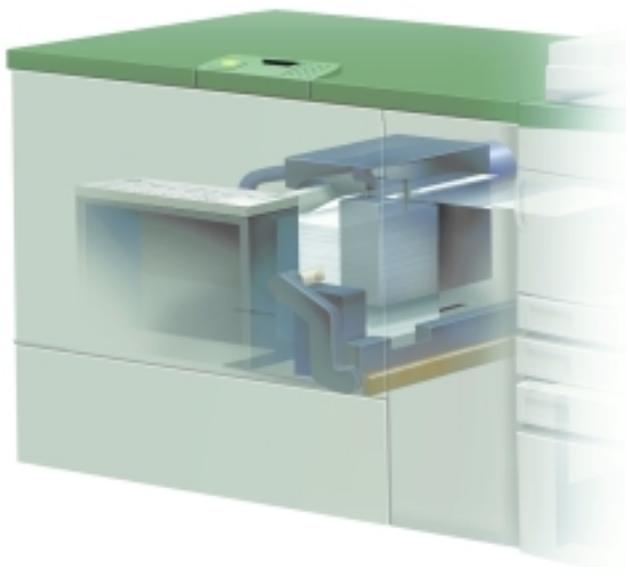


Figure 11. Tray 4

Paper Tray 4 is an optional tray. Refer to the Accessories chapter of this manual.

The following diagram shows the paper flow for Trays 1, 2, 3, and 4

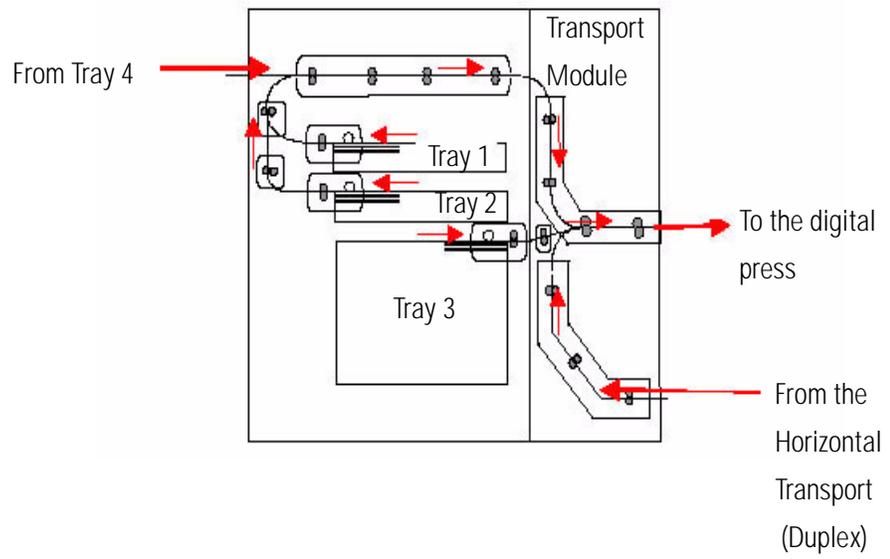


Figure 12. Paper Path of Trays 1, 2, 3, and 4

Paper guidelines

For the best results, remember the following:

- Do not load paper or other materials above the MAX line.
- Do not use wrinkled, torn, curled, or folded paper.
- Use the recommended paper sizes and weights.
- Do not mix sizes or weights of paper in a paper tray.
- Ensure that the tray indicator LEDs are set for the correct weight range.

There are two positions in which copy paper is fed into the digital press. One of the positions is called long edge first (LEF). Long edge refers to the long edge of your copy paper. When you see LEF, position your copy paper so that the long edge is fed first. Short edge refers to the short edge of your copy paper. When you see SEF, position your copy paper so that the short edge is fed first.

Paper	Tray 1/Tray2	Tray 3	Tray 4
Paper Size	B5 (LEF/SEF) 8.5 x 11"/A4 (LEF/SEF) B4 (SEF) 11 x 17"/A3 (SEF) 8 x 10" (LEF) 8.5 x 13" (SEF) 8.5 x 14" (SEF)	B5 (LEF/SEF) 8.5 x 11"/A4 (LEF/SEF) B4 (SEF) 11 x 17"/A3 (SEF) 8 x 10" (LEF) 8.5 x 13" (SEF) 8.5 x 14" (SEF) 12 x 18" (SEF) 12.6 x 17.7"/SRA3 (SEF) 12.6 x 19.2" (SEF)	A5 (SEF) 5.5 X 8.5 (SEF) B5 (LEF/SEF) 8.5 x 11"/A4 (LEF/SEF) B4 (SEF) 11 x 17"/A3 (SEF) 8 x 10" (LEF/SEF) 8 x 10.5" (LEF/SEF) 8.5 x 13" (SEF) 8.5 x 14" (SEF) 9 x 12" (LEF/SEF) 11 x 14.9" (LEF/SEF) 12 x 18" (SEF) 12.25 x 18.25" (SEF) 12.6 x 18" (SEF) 12.6 x 19.2" (SEF)
Paper weights			
Optimal Range	TBD 64 - 220 g/m ²	TBD 64 - 280 g/m ²	90 g/m ² 64 - 280 g/m ²
Transparencies	No	Yes	No
Labels	No	Yes	Yes
Transfer paper	No	Yes	No
Coated paper	No	Yes	Yes
Tabs	No	Yes	Yes
Drilled	No	Yes	Yes

Paper tray special features

Special features are in place to help control the environmental conditions in the paper trays to ensure optimum print capability:

- Paper Tray 2 has a heater.
- Paper Tray 3 has a heater and 2 blowers.
- The heaters must be activated by a Xerox representative.

Tray capacity

Paper Trays 1 and 2 have a capacity of 550 sheets of 24 lb. (90 g/m²) paper.

Paper Tray 3 has a capacity of 2000 sheets of 24 lb. (90 g/m²) paper.

Optional Paper Tray 4 has a capacity of 2500 sheets of 24 lb. (90 g/m²) paper.

Transparency guidelines

Transparencies can be run ONLY from Tray 3.

Use only the transparencies recommended:

- Xerox Removable Paper Strip: USA and Canada, 3R3108 and 3R5765; Xerox Europe, 3R91331.

Load transparencies into Tray 3 with the paper stripe side facing DOWN and with the stripe as the leading edge. (The leading edge is the edge that feeds into the digital press first.

- Do not mix paper and transparencies in Tray 3. Jams may occur.

Tabbed inserts

Tabbed Inserts can be loaded into Trays 3 and 4. When loading, the flat edge of the tabbed insert should be the lead edge to the digital press.

Non-standard paper, the size of the tabbed insert should be 9 x 11" (229 x 279mm) and the proper weight should be selected on the tray.

Drilled paper

Load the paper with the holes as lead edge to the digital press.

Auto Tray Switching

When Auto Tray Switching is enabled in the Tools Mode, the digital press automatically switches to another tray containing paper of the identical size, weight, type, and feeding orientation (SEF or LEF) when the tray being used is empty. Refer to the System Administration Guide, Tools chapter, for instruction on enabling Auto Tray Switching.

Loading paper

123...

- 1 To load a paper tray, pull out the tray slowly until it stops.

NEED PHOTO

Figure 13. Opening a Paper Tray

- 2 Load the correct size paper into the tray in the correct feeding orientation. Do not load materials above the MAX line located on the Edge Guide.
 - Load the paper seam side (the side where the ream of paper is sealed) down in Tray 1 and Tray 2.
 - Load the paper seam side (the side where the ream of paper is sealed) up in Tray 3 and Tray 4.



NOTE: Many suppliers use arrows on the product labels to indicate the preferred side to image first. Use this side (as signaled by the arrow) as equivalent to the seam side when loading the paper.

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Figure 14. Loading a Paper Tray

- 3 Adjust the paper guides by pulling in the guide release and carefully moving the Edge Guide until it lightly touches the edge of the material in the tray.

NEED PHOTO

Figure 15. Adjusting the Edge Guide

- 4 Trays 1, 2, 3 and 4 have an auto size detection capability. A paper weight (g/m²) range must be selected. The selection of the paper weight range effects the Image Quality. Press the button until the light next to the correct weight is illuminated.

Tray 2 has a chart which converts pounds into g/m² for easy selection. Refer to the Paper Weight Conversion Tables in this chapter.



The indicator on the Paper Trays will illuminate reflecting the paper weight in the Paper Tray.

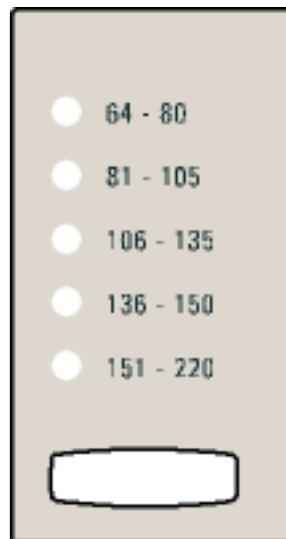


Figure 16. Paper Trays 1 and 2 Indicator

In addition to designating the correct paper weight, for Trays 3 and 4 select non-standard or standard paper and coated or non-coated paper,

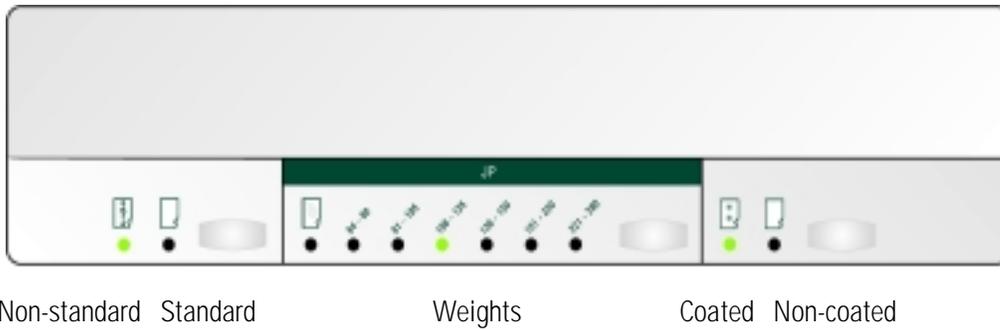


Figure 17. Paper Tray 3 Indicator

To ensure that the output is correct follow the orientation on the Tray 4 indicator when loading special stock.

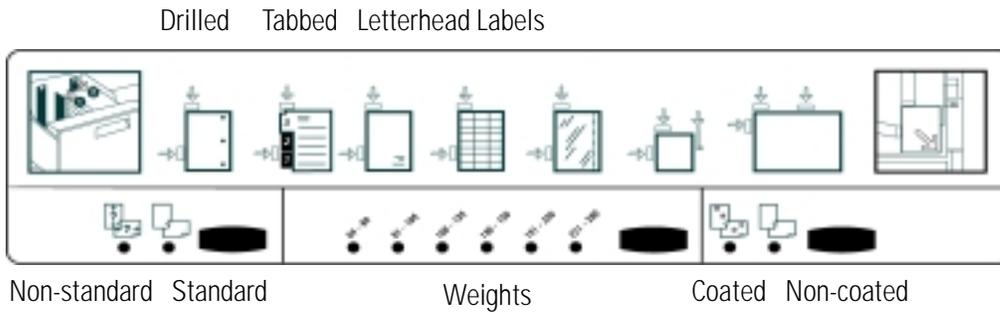


Figure 18. Paper Tray 4 Indicator



- 5 Close the tray slowly to avoid shifting the paper stack. If you hear paper being crumpled or torn, stop closing the tray. Remove all pieces of any damaged paper and close the tray slowly.

Paper Weight Conversion Tables

Specific Weight Conversion

Grammage g/m ²	Xerographic Bond, Writing, lbs 17" x 22" - 500 sheets	Offset, Text, Book, lbs 25" x 38" - 500 sheets	Cover, lbs 20" x 26" - 500 sheets	Index, lbs 25.5"x30.5" - 500 sheets	Bristol and Tag, lbs 22.5"x28.5" - 500 sheets
50	13	34	18	28	23
60	16	41	22	33	27
64	17	43	24	35	29
75	20	50	28	41	34
80	21	54	30	44	36
90	24	60	33	50	41
105	28	70	39	58	48
120	32	80	44	66	55
135	35	90	50	75	62
150	40	100	55	83	67
158	42	107	58	87	72
163	43	110	60	90	74
176	47	119	65	97	80
200	53	135	74	110	91
203	54	137	75	112	93
216	57	146	80	119	98
220	59	149	81	122	100
259	66	169	92	140	114
280	74	189	104	155	128



Grades widely used for this classification

Weight Conversion Ranges

Grammage g/m ²	Xerographic Bond, Writing, lbs 17" x 22" - 500 sheets	Offset, Text, Book, lbs 25" x 38" - 500 sheets	Cover, lbs 20" x 26" - 500 sheets	Index, lbs 25.5"x30.5" - 500 sheets	Bristol and Tag, lbs 22.5"x28.5" - 500 sheets
64 - 80	17 - 21 lbs	43 - 54 lbs	24 - 30 lbs	35 - 44 lbs	29 - 36 lbs
81 - 105	22 - 28 lbs	55 - 70 lbs	31 - 39 lbs	45 - 58 lbs	37 - 48 lbs
106 - 135	29 - 36 lbs	71 - 90 lbs	40 - 44 lbs	59 - 75 lbs	49 - 62 lbs
136 - 150	37 - 40 lbs	91 - 100 lbs	45 - 55 lbs	76 - 83 lbs	63 - 67 lbs
151 - 220	41 - 59 lbs	101 - 149 lbs	56 - 81 lbs	84 - 122 lbs	68 - 100 lbs
221 - 280	60 - 74 lbs	150 - 189 lbs	82 - 104 lbs	123 - 166 lbs	101 - 128 lbs

4. Accessories

Tray 4

Identifying Tray 4 Parts

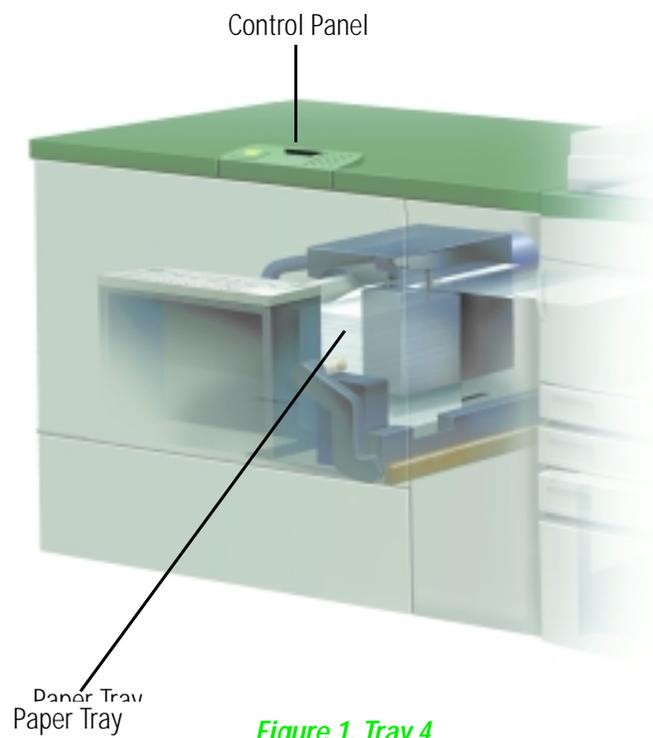


Figure 1. Tray 4

Control Panel



Figure 2. Tray 4 Control Panel

	Misfeed jam indicator
	Takeaway Roll, late to exit and Exit Sensor jam indicator.
	Standby:
	
	Load paper, raise or lower the paper tray.
	
	Paper tray is open.
	
	Wait. The paper tray is in motion, wait until the light goes out.
	
	Paper level indicator. Far left indicator is red - HCF will not function. Load paper. Second indicator is orange warning of low paper. The other indicators are green indicating the level of paper in the tray.



When the HCF is turned on, 8s will flash then the software version number is shown. After initialization, a green indicator light will appear in the lower left corner of the screen. All other codes shown are for the Xerox Customer Support Representative to run diagnostics when servicing the HCF. If there is a problem with the HCF that you can rectify, the problem and the corrective action will appear on the digital press touch screen.

The keypad is for the Xerox Customer Support Representative to run diagnostics when servicing the HCF.

Electrical Requirements

100-127VAC 50/60 Hz., 15 amps. max supplies, +/- 10% voltage tolerance, +/- .5 Hz. Frequency tolerance.

220-240 VAC 50/60 Hz., 10 amps max supplies +/- 10% voltage tolerance, +/- .5 Hz. Frequency tolerance.

A dedicated line is NOT required.

Paper Stock Specifications

Tray 4 is designed to feed the commonly used paper sizes and weights as well as the special applications stock listed below

There are two positions in which copy paper is fed into the digital press. One of the positions is called long edge first (LEF). Long edge refers to the long edge of your copy paper. When you see LEF, position your copy paper so that the long edge is fed first. Short edge refers to the short edge of your copy paper. When you see SEF, position your copy paper so that the short edge is fed first.

Paper	Tray 4
Paper Size	A5 (SEF) 5.5 X 8.5 (SEF) B5 (LEF/SEF) 8.5 x 11" /A4 (LEF/SEF) B4 (SEF) 11 x 17" /A3 (SEF) 8 x 10" (LEF/SEF) 8 x 10.5" (LEF/SEF) 8.5 x 13" (SEF) 8.5 x 14" (SEF) 9 x 12" (LEF/SEF) 11 x 14.9" (LEF/SEF) 12 x 18" (SEF) 12.25 x 18.25" (SEF) 12.6 x 17.7" (SEF) 12.6 x 19.2" (SEF)
Paper weights	
Optimal	90 g/m ²
Range	64 - 280 g/m ²

Special paper stock for Tray 4:

- Labels
- Letterhead
- Drilled (hole punched)
- Colored paper
- Coated/Non-coated paper
- Tabbed inserts

Tray 4 will hold a maximum of 2500 sheets of 24 lb. (90 g/m²) paper (five reams). DO NOT fill above the MAX line.

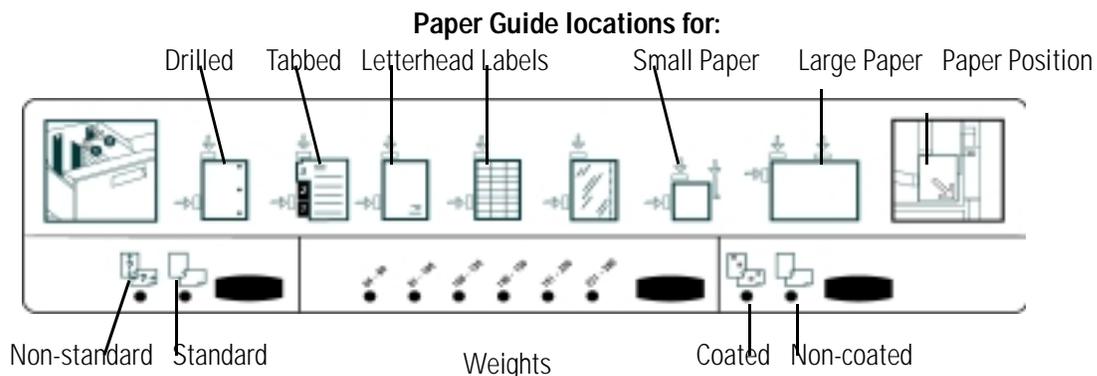
For further instructions on loading special stock, refer to the Loading Special Stock section in this chapter.

NEED PHOTO

Figure 3.

123...

- 1 Press the **Tray Open** button.
- 2 Wait until the Elevator Tray stops moving.
- 3 Open the Tray 4 Door.
- 4 Remove any remaining sheets from the Elevator Tray if you are changing paper stock.
- 5 Load the paper onto the Elevator Tray with the sheets even against the front registration edge. DO NOT fill above the MAX line.
- 6 Select standard or non-standard paper, the g/m² of the paper, coated or uncoated paper, and adjust the Paper Guides until they lightly touch the paper.



- 7 Close the Tray 4 Door.
The Elevator Tray will automatically rise and stop at the correct feeding height.

Loading Special Stock

When loading special stock, refer to the tray indicator for loading orientation. Select the special stock loaded on the tray indicator.

Drilled

Load the paper with the holes toward the digital press.

Letterhead

Load the letterhead face up and with the top toward the front of the digital press.

Coated Paper

Coated paper is loaded the same as non-coated paper.

Tabbed Inserts

Tabbed Inserts are loaded with the flat edge of the tabbed insert toward the digital press.

Labels

Load labels face up.



NOTE: *Remove any remaining sheets from the Elevator Tray before loading a different paper stock.*

Digital Press Paper Reliability

Refer to the Materials User Guide that is included with your DocuColor 2045/2060.

Jam Clearance

A paper jam in Tray 4 will be indicated by a message in the Touch Screen which will refer you to the User Interface (UI) on Tray 4.

Perform the following steps to clear a Tray 4 jam and resume printing.

123...

- 1** Press the **Tray Open** button.
- 2** Wait until the Elevator Tray stops moving.
- 3** Open the Tray 4 Door.
- 4** Remove any paper from the Horizontal Transport by lifting the green handle and turning the green knob in the direction of the arrow. Check the paper feed area for a paper jam condition.
- 5** Close the Tray 4 Doors.
The Elevator Tray will automatically rise and stop at the correct feeding height.
- 6** Open the digital press and remove any paper found in the digital press. Refer to the digital press Jam Clearance chapter in this manual.
- 7** Follow the instructions displayed in the Touch Screen and Tray 4 UI to resume printing.

Tray 4 Maintenance

Cleaning Tray 4

Do not clean any area inside of Tray 4. If Tray 4 covers require cleaning, dampen a paper towel or soft, clean cloth with a liquid, nonabrasive glass cleaner or water.

To avoid damage to Tray 4, DO NOT pour or spray the cleaner or water directly onto Tray 4. Always apply the liquid to the cloth first.

DO NOT use any other cleaners or solvents on Tray 4 or they may interact with the paint on the covers, eventually causing the paint to peel.

Problem Solving

Tray 4 has an attitude sensor that detects the curl of the paper and adjusts the Elevator Tray accordingly. If misfeeds and jams occur repeatedly, the following Table provides you with suggested solutions to help avoid different Tray 4 problems. Use the suggested solutions as a guide to help prevent the specific misfeed problems listed in the chart. When a problem occurs:

- Find the problem in the PROBLEM column.
- Follow the suggestion in the SUGGESTED SOLUTIONS column until the situation is corrected.

For additional help, call Xerox Customer Support.

PROBLEM	SUGGESTED SOLUTION
Repeated Tray 4 misfeeds	<ul style="list-style-type: none"> • Turn the paper stack around and/or over in the Elevator Tray. • Replace the paper in the tray with paper from a new package. • Keep paper in the original wrapper and store it flat in a dry environment when not in use. • Fan the paper at all four corners. Change it if it has uneven edges or if it was not drilled properly. Fan drilled paper to remove paper plugs. • Lightweight or heavyweight paper may not feed with as much reliability as papers that are 64 to 280 g/m². • Remove a few sheets from the top and the bottom of the ream in the Elevator Tray. • Ensure that the paper is loaded evenly to the edge of the tray and not overloaded. • Check to ensure that the seguidillas are lightly against the paper and not too tight.

PROBLEM	SUGGESTED SOLUTION
Tray 4 does not feed	<ul style="list-style-type: none"> The digital press should be set to feed from Tray 4. Check that the Tray 4 power cord is connected. Test the Ground Fault Indicator according to the instructions in this chapter.
Misfeeds occur with lightweight paper.	Use a heavier weight paper.
Prints are skewed.	Ensure that the Side Guide Adjustment Lever is in the correct position.

Loss of Power

Tray 4 is equipped with an additional safety feature, the ground fault indicator. The ground fault indicator is in the bottom center of the back cover of Tray 4.

If power is interrupted to Tray 4:

- Ensure the power cord is plugged into the proper wall receptacle (the ground fault indicator must be plugged in to reset).
- Check to see if the GFI switch was tripped. Press and release the **RESET** button. Power should be restored to Tray 4.
- If the device interrupts power to Tray 4 immediately, or if the power has not been restored by the above procedure, call Xerox Customer Support.

Also call Xerox Customer Support if the loss of power to Tray 4 seems to be frequent or excessive.

NEED PHOTO

Figure 4. GFI

High Capacity Stacker (HCS)

The High Capacity Stacker is an optional finishing device which collects and stacks output into a stacker tray. The High Capacity Stacker has an offset mode which provides separation between the stacked sets. The High Capacity Stacker can also pass output to the next output device in line or send it to the Purge/Catch Tray.

Identifying High Capacity Stacker Parts

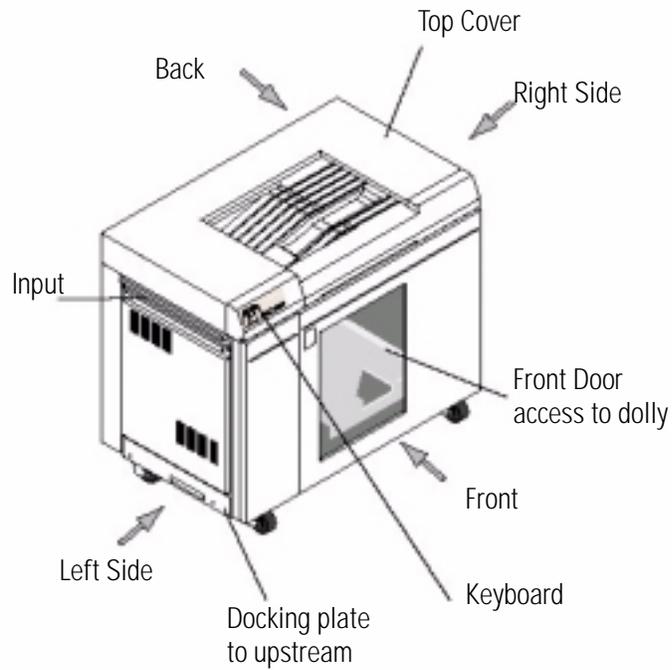
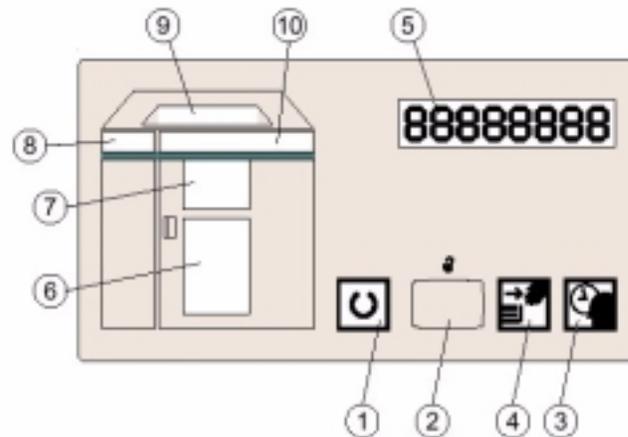


Figure 5. High Capacity Stacker

Control Panel



	Name	Function
1	Ready Indicator	The Ready Indicator blinks when the digital press is being initialized. The Ready Indicator is constant when in use or in standby.
2	Table Down Switch	Press once to lower the elevator. Press again to stop lowering the elevator. If pressed while running a job, all sheets in the paper path are delivered before the elevator will lower. If pressed while the HCS is in the Bypass Mode, nothing will occur.
3	Please Wait	Please Wait will illuminate while the elevator is in motion.
4	Ready To Open	Illuminates when the elevator has reached the down position and the Stacker Door can be opened.
5	Sheet Counter	Counts 1 for every 100 sheets.
6	Main Tray	Illuminates when paper is being delivered to the elevator tray. Blinks when the cart is full or not in place. The indicator is OFF when the Stacker is in standby, bypass or proof modes.
7	Baffle Area	Illuminates when paper is being stacked. Blinks when there is a jam. The indicator is OFF when the Stacker is in standby, bypass or proof modes.
8	Entry	Illuminates when the stacker is in the Bypass Mode. Blinks when there is a jam in baffle "A". The indicator is OFF when the Stacker is in standby, bypass or proof modes.
9	Purge/Catch Tray	Illuminates when in Purge/Catch Tray Mode. Blinks when the tray is full. The indicator is OFF when the Stacker is in standby, stacking or bypass modes.
10	Horizontal Transport	Illuminates when the stacker is in the Bypass Mode. Blinks when there is a jam in the registration area or in baffles "D/E". The indicator is OFF when the Stacker is in standby, bypass or proof modes.

Electrical Requirements

100-127VAC 50/60 Hz., 15 amps. max supplies, +/- 10% voltage tolerance, +/- .5 Hz. Frequency tolerance

220-240 VAC 50/60 Hz., 10 amps max supplies +/- 10% voltage tolerance, +/- .5 Hz. Frequency tolerance

A dedicated line is not required

Paper Stock specifications

The High Capacity Stacker is designed to output the following:

Paper Size SEF Orientation only	HCS 60 - 220 g/m ²	Bypass 60 - 280 g/m ²	Purge/Catch Tray 60 - 280 g/m ²
B5	No	No	Yes
8.5 x 11" /A4	No	Yes	Yes
B4	Yes	Yes	Yes
11 x 17" /A3	Yes	Yes	Yes
8 x 10"	No	Yes	Yes
8 x 10.5"	No	Yes	Yes
8.5 x 13"	No	Yes	Yes
8.5 x 14"	No	Yes	Yes
9 x 12"	No	Yes	Yes
11 x 14.9"	Yes	Yes	Yes

The High Capacity Stacker can handle special materials such as transparencies, labels, and coated paper with some degradation such as stack scatter or increased shutdown rate.

Selecting High Capacity Stacker features

Stack Mode

Stacks collated sets as received from the digital press. The stacker tray has a capacity of 3500 sheets of 24 lb. (90 g/m²) paper.



Offset Mode

Offsets each set for easy separation.

Bypass Mode

The Bypass Mode can be selected from the RIP or the IOT UI. The Bypass Mode enables output to bypass the stacker and go to the next device in line. In Bypass Mode, if more than one stacker is attached to your configuration, when a stacker tray reaches capacity output will automatically be sent to the next stacker in line. The full stacker tray can be unloaded without affecting operability.



Purge/Catch Tray

The High Capacity Stacker diverts sheets that are too small or too large to be stacked and proof sets to the Purge/Catch Tray. The capacity of the Purge/Catch Tray is 250 sheets of 24 lb. (90 g/m²) paper.



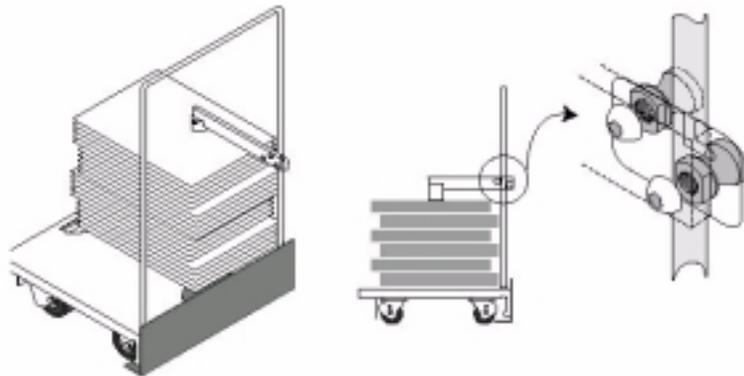
Unloading the High Capacity Stacker

When the High Capacity Stacker is full or the job has been completed, the operator may unload the stacker.

Perform the following steps to unload the High Capacity Stacker and resume printing.

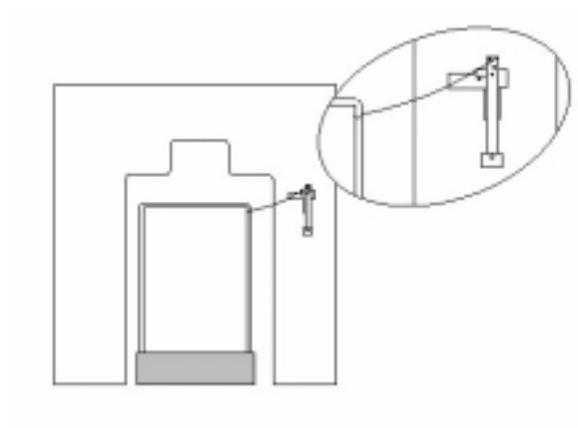
123...

- 1 Press the **Table Down Switch**.
- 2 Wait until the elevator stops and the Please Wait indicator is OFF.
- 3 The Ready To Open indicator will illuminate/
- 4 Open the High Capacity Stacker front door.
- 5 Position the securing bar onto the dolly handle.



- 6 Ensure that the handle is in the proper position on the top of the paper stack so that the stack will not move when the dolly is pulled out.
- 7 Pull the dolly straight out.
- 8 Push an empty dolly straight into the High Capacity Stacker.

- 9 Replace the securing bar back into position.



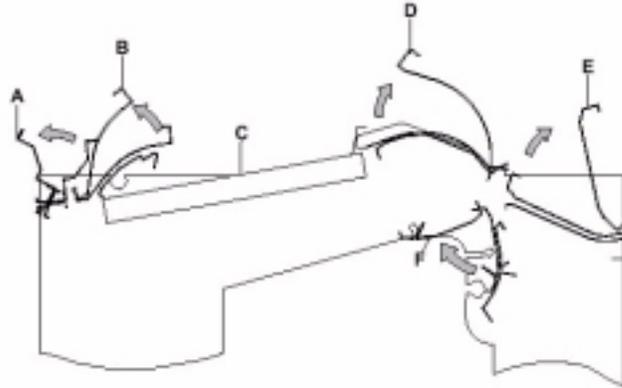
- 10 Close the High Capacity Stacker front door.
- 11 Follow the instructions displayed in the Touch Screen to resume printing.

Jam Clearance

A paper jam in the High Capacity Stacker will be indicated by a message in the Touch Screen.

Perform the following steps to clear the High Capacity Stacker jam and resume printing.

Figure 6.



123...

- 1** Lift the High Capacity Stacker Top Cover.
- 2** Lift green handles A, B, C, D and E in sequence and remove all paper in these areas.
- 3** Close green handles A, B, C, D and E in sequence
- 4** Close the High Capacity Stacker Top Cover.
- 5** Open the digital press and remove any paper found in the digital press. Refer to the digital press Jam Clearance chapter in this manual.
- 6** Follow the instructions displayed in the Touch Screen to resume printing.

High Capacity Stacker Maintenance

Cleaning the High Capacity Stacker

Do not clean any area inside of the High Capacity Stacker. If the High Capacity Stacker covers require cleaning, dampen a paper towel or soft, clean cloth with a liquid, nonabrasive glass cleaner or water.

To avoid damage to the High Capacity Stacker, do not pour or spray the cleaner or water directly onto the High Capacity Stacker. Always apply the liquid to the cloth first.

Do not use any other cleaners or solvents on the High Capacity Stacker or they may interact with the paint on the covers, eventually causing the paint to peel.

Problem Solving

If after following the recommended solutions, the problem persists, call for assistance.

Problem	Cause	Solution
Ready Indicator does not illuminate	No power	<ul style="list-style-type: none"> • Check the power cord connected to the power source. • Check that the GFI circuit breaker is not tripped (rear cover). • Check that the main switch is on.
Poor Stacking	Mixed sizes of paper	<i>Run separate jobs and empty stacker.</i>
	High paper curl	<ul style="list-style-type: none"> • Adjust digital press decurler. • Flip paper in digital press paper tray(s). • Rotate paper in the digital press paper tray(s).
	8 1/2 x 11", 8 1/2 x 14", A4 paper sizes	<i>Check that digital press is short edge feed (SEF).</i>
	Mechanical obstruction	<ul style="list-style-type: none"> • Check for obstruction in the stacker paper path. • Ensure that all transports and baffles are properly seated. • Ensure that the cart is properly seated.
Paper Jams	Lower paper path	<i>Deselect offset or restart job.</i>
	High paper curl	<ul style="list-style-type: none"> • Adjust digital press decurler. • Flip paper in digital press paper tray(s). • Rotate paper in the digital press paper tray(s). • Switch to heavier paper.
	Dirty sensor	<i>Clean sensor with a Q-Tip.</i>
	Dirty rollers	<i>Clean rollers with Xerox Formula "A" cleaner.</i>

Loss of Power

The High Capacity Stacker is equipped with an additional safety feature, the ground fault indicator. The ground fault indicator is in the bottom left corner of the back cover of the High Capacity Stacker.

If power is interrupted to the High Capacity Stacker:

- Ensure the power cord is plugged into the proper wall receptacle (the ground fault indicator must be plugged in to reset).
- Check to see if the GFI switch was tripped. Press and release the **RESET** button. Power should be restored to the High Capacity Stacker.
- If the device interrupts power to the High Capacity Stacker immediately, or if the power has not been restored by the above procedure, call Xerox Customer Support.

Also call Xerox Customer Support if the loss of power to the High Capacity Stacker seems to be frequent or excessive.

5. Problem Solving

When a problem occurs with your DocuColor 2045/2060, a message will appear on the Touch Screen denoting instructions to be followed in the sequence displayed. Refer to the information in this chapter to help resolve the problem.

General Problems

This chart lists problems and suggested solutions that apply to your DocuColor 2045/2060. If the problem persists after following all instructions, call your Xerox representative.

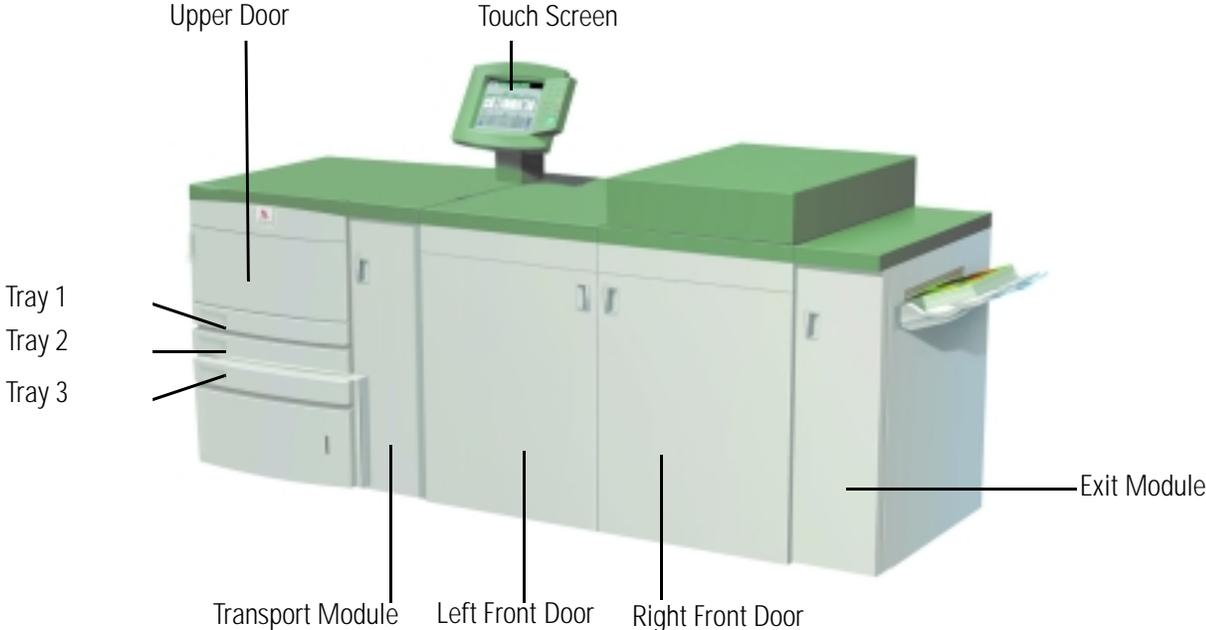
Problem	Suggested solutions
The digital press does not come on.	<ul style="list-style-type: none">• Ensure the power cord is plugged into the receptacle correctly.• Ensure the power switch inside the front left door is set to the on position.• Check the GFI circuit breaker switch.• If the power in your location is working properly, you have tried the suggested solutions, and the digital press power does not come on, call for assistance.
Prints are not on desired paper size.	<ul style="list-style-type: none">• Ensure that the proper paper is loaded in the paper trays.• Select the paper size, tray and weight through the digital press options on your PC.• Ensure that the correct weight is selected on the tray.• Ensure that "Fit to Paper" is not selected in your print driver.

Problem	Suggested solutions
<p>Paper is misfed or wrinkles repeatedly.</p>	<ul style="list-style-type: none"> • If a message appears on the Touch Screen, follow the instructions displayed and refer to the information in this chapter. • Ensure the proper paper (refer to the Paper chapter of this manual) is loaded correctly and not filled above the MAX line. • Turn the paper stack around and/or over in the selected paper tray. • Remove a few sheets from the top and the bottom of the stack in the paper tray. • Fan all four edges of the paper in the selected paper tray. • Replace the paper in the selected paper tray with paper from a new package. • Remove any partially fed paper from the trays. • Ensure the paper you are using had been stored properly.

Jam Clearance

If a jam occurs, the DocuColor 2045/2060 will stop printing and a message will be displayed on the Touch Screen. Follow all instructions displayed completely and in sequence to rectify the problem. Refer to this chapter for additional information to resolve the problem.

If power is interrupted during the printing process, it is imperative that you clear all other jam areas before you open and clear the Right and Left Front Door areas as depicted below. Otherwise, follow the instructions on the Touch Screen.



PROBLEM SOLVING

Figure 23. DocuColor 2045/2060

Left Side Door Jam



Figure 24. Left Side Door

- 1** Open the left side door of the DocuColor 2045/2060. If you have an optional Tray 4, open the Tray 4 Right Door, then open the left side door of the main digital press.
- 2** Carefully remove all jammed paper, ensuring that all pieces are removed if the paper is torn.
- 3** Close the left side door. If you have an optional Tray 4, close the Tray 4 Right Door.

Trays 1, 2 and 3 Jams



CAUTION: *The Feedheads and the Feedrolls are delicate and can be damaged if this procedure is not followed precisely.*

123...

- 1 Perform the Left Side Door Jam procedure before opening Trays 1 and 2.
- 2 Open Tray 1.
- 3 Carefully remove all jammed paper.
- 4 Close Tray 1.
- 5 Open Tray 2.
- 6 Carefully remove all jammed paper.
- 7 Close Tray 2.
- 8 Perform the Transport Module Jam procedure in this chapter before opening Tray 3.
- 9 Open Tray.
- 10 Carefully remove all jammed paper.
- 11 Close Tray 3.
- 12 Follow the instructions on the Touch Screen to resume your print job.

Upper Door Jam

123...

- 1 Open the Upper Door.
- 2 Lower the Feed Transport by pulling down on the green handle.
- 3 Carefully remove all jammed paper.
- 4 Raise the Feed Transport back into its original position.



NOTE: *The front door will not close if the Feed Transport handle is not seated properly.*

- 5 Close the Upper Door.
- 6 Follow the instructions on the Touch Screen to resume your print job.

Transport Module Jam

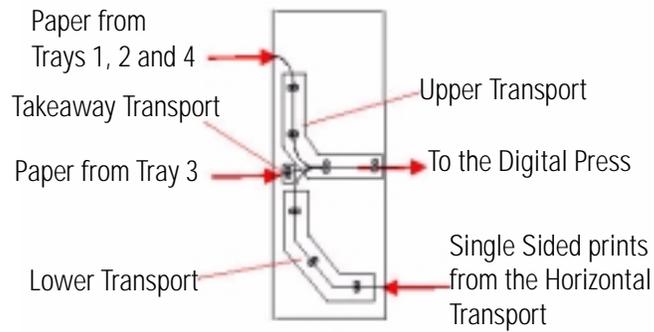


Figure 26. Transport Module

123...

- 1** Open the Transport Module door.
- 2** When printing 1-Sided or 2-Sided, grasp the green handle 1, squeeze and move it to the right.
- 3** Carefully remove all jammed paper.
- 4** Reposition the green handle.
- 5** Lift green handle 2.
- 6** Carefully remove all jammed paper.
- 7** When printing 2-Sided, also lift handle 3 and remove all jammed paper.
- 8** When a Tray 3 misfeed occurs, release handle 4 and remove all jammed paper.
- 9** Close the Transport Module door.
- 10** Follow the instructions on the Touch Screen to restart your print job.

Exit Module Jams

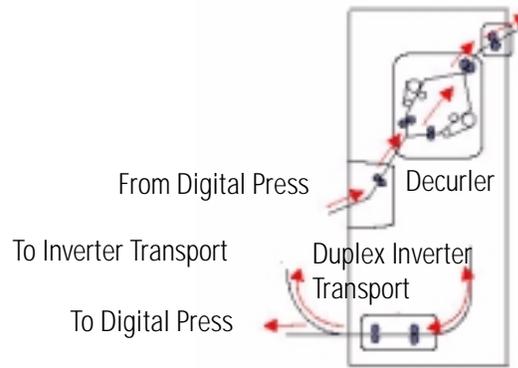


Figure 27. Exit Module

123...

- 1 Open the Exit Module door.
- 2 When printing 1-Sided or 2-Sided, squeeze and open green handles 1, 2, 3, 4 and 5 in sequence. When printing 2-Sided or face down output, also lift handle 6,
- 3 Carefully remove all jammed paper. Turn the green knob to free any immovable paper.
- 4 Reposition the green handles and ensure all handles are seated properly.
- 5 Close the Exit Module door.
- 6 Follow the instructions on the Touch Screen to restart your print job.

Right/Left Door Paper Path Jams

Registration, Vacuum Transport and Fuser

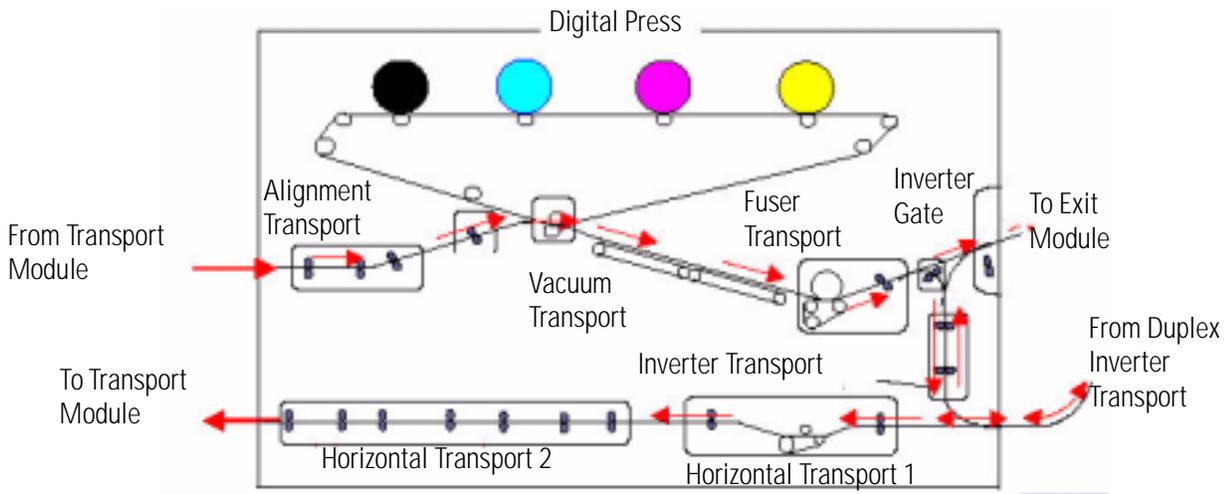


Figure 28. Right/Left Door Paper Path

PROBLEM SOLVING

123...

- 1 Open the Right and Left Front Doors.
- 2 Grasp the green handle and move in the direction of the arrow.
- 3 Slowly pull the paper transport straight out until it stops.
- 4 Lift the handle of the Registration area and carefully remove all jammed paper, ensuring that all pieces are removed if the paper is torn. Turn the green handles to free any immovable paper.
- 5 Lift the handle of the Vacuum Transport area and carefully remove all jammed paper, ensuring that all pieces are removed if the paper is torn. Turn the green handles to free any immovable paper.



CAUTION: The Fuser area is extremely hot and injury will occur if not handled correctly.

- 6 The Fuser area is on the right hand side of the paper path. Lift the handle on the right hand side and lay the inverter transport back.
- 7 Lift the exit baffle and rotate the knob counterclockwise to clear paper in the Fuser Exit baffle. Ensure the magnets are in place front and back.
- 8 Slowly push in the paper tray until it stops. Ensure that the green handle is seated properly.
- 9 Close the Right and Left Front Doors.
- 10 Follow the instructions on the Touch Screen to restart your print job.

Horizontal Transport (2-Sided Printing Only)

When 2-Sided printing, perform the following in addition to steps 2 through 8 of the Registration, Vacuum Transport and Fuser procedure.



- 1 Lift both of the Horizontal Transport handles and turn the knob counterclockwise to clear,
- 2 Apply pressure to the release handles and latch them.
- 3 Lift to latch,



CAUTION: *The paper can rip if the paper is not pushed before removing it from under the lip of the Transport.*

- 4 Push the paper back until you see the edge of the paper then remove the paper.
- 5 Close the Right and Left Front Doors.
- 6 Follow the instructions on the Touch Screen to restart your print job.

Status Codes

When there is a problem with the digital press or an accessory, refer to the Touch Screen for the status code which identifies the problem, and provides suggested solutions. Follow all steps in the suggested solutions until the problem is corrected. If the problem persists, call the following number for assistance.

In the United States call: **1-800-821-2797**

6. Technical Data

DFE Specifications

Refer to the DFE section of your User Guide.

Digital Press Specifications

Electrical power requirements (200/240 - 50/60 Hz)

Specifications

Single phase - Three wire plus safety ground

Current service - 30 amp

Range (line to neutral) - 200 V minimum to 240 V maximum

Frequency - 50/60 Hz

Power consumption

Standby - TBD

Run - 4.8 KVA maximum

Power Saver - TBD

NEMA Outlet

Heat Output

Standby - TBD

Run - TBD

Power Saver - TBD

Air Exchange Rate

Standby - TBD

Run - TBD

Power Saver - TBD

Energy Star/Sleep Mode

Standby - TBD

Run - TBD

Power Saver - TBD

Environmental Requirements

As an ENERGY STAR Partner, Xerox Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Operating Temperatures

Minimum: 50°F (10°C) at 15% relative humidity

Maximum: 90°F (32°C) at 85% relative humidity



NOTE: *Above 82°F (28°C) reduced humidity is required to maintain the specified performance.*

Altitude

Normal configuration: maximum 6557 feet (2000 meters).

Field Adjustment required from 6557 feet (2000 meters) to 8200 feet (2500 meters).

Noise levels

	Continuous Noise	Impulse Noise
Standby	49.5 dBa	N/A
IOT Operation	64.0 dBa	72.0 dBa
Full System Operation	72.0 dBa	72.0 dBa

Ozone emissions

Not to exceed 0.02 PPM (maximum)

Imaging material: No unpleasant odor

Dust

Dust concentration during continuous run should be 0.1mg/cubic meter

Capabilities

Tray capacity

Paper Trays 1 and 2 have a capacity of 550 sheets.

Paper Tray 3 has a capacity of 2000 sheets.

Paper Tray 4 (optional) has a capacity of 2500 sheets.

Throughput

Tray 1/Tray 2: Inches/B5 (LEF/SEF) to 11 x 17"/A3 SEF

Tray 3: Inches/B5 (LEF/SEF) to 12.6 x 19.2" (MM???) SEF

Tray 4 (optional): Inches/B5 (LEF/SEF) to 12.6 x 19.2" (MM???) SEF

Warm-up time

6 minutes

First print out time

16 seconds

Print rates

Paper/ Material Weight	Fuser Temp Mode 1 High temperature	Fuser Temp Mode 2 Low temperature	Fuser Temp Mode 3 (Fuser Temp Auto Selection) (145 degrees in standby mode)
64 - 80 g/m ²	45	45	45 @ Low Temp
81 - 105 g/m ²	45	60	60 @ Low Temp
106 - 135 g/m ²	60	30	60 @ High Temp
136 - 150 g/m ²	30	30	30 @ Low Temp
151 - 220 g/m ²	30	22.5	30 @ High Temp
221 - 280 g/m ²	22.5	22.5	22.5 @ Low Temp
Transparency	22.5	22.5	22.5 @ Low Temp

Fuser Temp Mode 3 is the factory default and is programmed with the most efficient run scenario.

If you desire to change to Mode 1 or Mode 2, you must call your Xerox representative.

Physical Characteristics

Digital Press size

92.3 inches/2380 mm (W) x 37.4 inches/950 mm (D) x 55.6 inches /1412 mm (H)

Digital Press weight

TBD

Floor space requirements

Refer to the DocuColor 2045/2060 site template.

High Capacity Feeder Specifications

Electrical power requirements Specifications

Single phase - Three wire plus safety ground

Current service - 30 amp

Range (line to neutral) - 200 V minimum to 240 V maximum

Frequency - 50/60 Hz

Power consumption

Standby - TBD

Run - 4.8 KVA maximum

Power Saver - TBD

Heat Output

Standby - TBD

Run - TBD

Power Saver - TBD

Air Exchange Rate

Standby - TBD

Run - TBD

Power Saver - TBD

Environmental Requirements

Noise levels

	Continuous Noise	Impulse Noise
Standby	49.5 dBa	N/A
IOT Operation	64.0 dBa	72.0 dBa
Full System Operation	72.0 dBa	72.0 dBa

Ozone emissions

Not to exceed 0.02 PPM (maximum)

Imaging material: No unpleasant odor

Dust

Dust concentration during continuous run should be 0.1mg/cubic meter

Capabilities

Tray capacity

Paper Tray 4 (optional) has a capacity of 2500 sheets.

Throughput

Tray 4 (optional): [Inches/B5](#) (LEF/SEF) to 12.6 x 19.2" (MM???) SEF

Physical Characteristics

HCF size

TBD mm (W) x TBD mm (D) x TBD mm (H)

HCF weight

TBD

Floor space requirements

Refer to the DocuColor 2045/2060 site template.

High Capacity Stacker Specifications

Electrical power requirements

Specifications

Single phase - Three wire plus safety ground

Range (line to neutral) - 100 V minimum to 127 V maximum, 12 A max

200 V minimum to 240 V maximum, 10 A max

Frequency - 50/60 Hz

Power consumption

Run - 500 Watts

Heat Output

Run - 1700 BTU

Air Exchange Rate

Standby - TBD

Run - TBD

Power Saver - TBD

Noise levels

Continuous: TBD

Ozone emissions

Not to exceed 0.02 PPM (maximum)
Imaging material: No unpleasant odor

Dust

Dust concentration during continuous run should be 0.1mg/cubic meter

Capabilities

The Purge/Catch Tray has a capacity of 250 sheets.
The Stacker Tray has a capacity of 3500 sheets

Physical Characteristics

HCS size

1150 mm (W) x 803 mm (D) x 1300 mm (H)

HCS weight

TBD

Floor space requirements

Refer to the DocuColor 2045/2060 site template.

