

Digital Production System

Xerox Nuvera™ 100/120/144

System Release 7.0 with FreeFlow™ DocuSP® 5.1

Customer Expectations Document

Version: c

October 27, 2006

Includes:

- Xerox Nuvera™ 100/120/144 Digital Production System
- Xerox Nuvera™ 100/120/144 MX Digital Production System
- Options:
 - Scanner Module,
 - Second Sheet Feeder Module,
 - Insertion Module,
 - One or 2 Basic Finishing Modules
 - Finishing Transport Module
 - Inline Finishing options
 - Inline DFA Finishing Options



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Xerox SquareFold BookletMaker



Xerox DS5000



GBC Fusion Punch II



CP Bourg BDFx BookletMaker w/optional SquareEdge Module



Xerox DB120-D Document Binder



Xerox Manual & Book Factory

Table of Contents

| | |
|---|-----------|
| INTRODUCTION | 5 |
| PRODUCT OVERVIEW | 5 |
| CRUCIAL PERFORMANCE EXPECTATIONS | 5 |
| NEW CAPABILITIES WITH XEROX NUVERA™ SYSTEM RELEASE 7.0 | 8 |
| OPTIMUM PRODUCT PERFORMANCE | 11 |
| ENVIRONMENTAL FACTORS | 11 |
| PRODUCT SPACE & POWER REQUIREMENTS | 12 |
| SYSTEM CONFIGURATION AND INSTALLATION | 12 |
| AVAILABILITY | 14 |
| OPERATIONS | 14 |
| SUPPLIES AND COMPONENT YIELDS | 14 |
| XEROX PRODUCTIVITY PLUS (XPP) | 15 |
| KIT LIMITATIONS | 15 |
| COMPATIBLE MEDIA LIST | 16 |
| PRODUCT SPECIFICATIONS OVERVIEW BY SUB-SYSTEM | 20 |
| FREEFLOW MAKEREADY, WEB SERVICES AND PROCESS MANAGER | 20 |
| VIPP (VARIABLE DATA INTELLIGENT POSTSCRIPT PRINTWARE) | 21 |
| NETWORK CONNECTIVITY | 22 |
| SCANNER MODULE | 23 |
| DIGITAL FRONT END (DFE) - FREEFLOW™ DOCUSP® | 25 |
| PRINT FROM DIGITAL FILE | 27 |
| SCAN TO DIGITAL FILE | 27 |
| PRODUCTIVITY IMPACTS | 27 |
| LCDS AND IPDS | 28 |
| SHEET FEED MODULES | 30 |
| PRINTER MODULE | 32 |
| BASIC FINISHING MODULE (BFM) AND BFM PLUS | 35 |
| SYSTEM PRODUCTIVITY: WITH BASIC FINISHING MODULE | 38 |
| FINISHING TRANSPORT MODULE (FTM) | 39 |
| XEROX DS5000 HIGH CAPACITY STACKER | 40 |

| | |
|---|-----------|
| <u>C.P. BOURG BDFX BOOKLET MAKER WITH OPTIONAL BCFX COVERS FEEDER AND SQUAREEDGE MODULE</u> | <u>41</u> |
| <u>XEROX SQUAREFOLD® BOOKLETMAKER (SQFBM)</u> | <u>43</u> |
| <u>GBC FUSION PUNCH II WITH OFFSET STACKER</u> | <u>44</u> |
| <u>XEROX DB120-D DOCUMENT BINDER</u> | <u>46</u> |
| <u>XEROX MANUAL AND BOOK FACTORY</u> | <u>47</u> |
| <u>POST-PROCESS USES OF XEROX NUVERA™ 100/120/144 DPS</u> | <u>50</u> |
| <u>FUTURE FEATURES - XEROX NUVERA™ 100/120/144 DPS.....</u> | <u>50</u> |

Introduction

The purpose of this document is to help you understand the current features and capabilities of the Xerox Nuvera™ 100/120/144 Digital Production System (DPS). Review of this material is recommended prior to your signing an order for a Xerox Nuvera™ 100/120/144 Digital Production System.

This document addresses high-level expectations. Additional details are provided in the training documentation.

Product Overview

The Xerox Nuvera™ 100/120/144 Digital Production System sets a new benchmark in the world of on-demand printing. It is a networked printing system comprised of multiple modules. The Xerox FreeFlow™ Document Services Platform (FreeFlow™ DocuSP®) is integrated into the Printer Module. The printer module may be acquired with simplex, letter size / A4 speeds of 100, 120 or 144 impressions per minute. The optional Scanner Module with 300 sheet input tray scans at 120 images per minute, simplex or duplex at 600 x 600 dpi. Two Sheet Feed Modules (SFM's) are available, one with 4 trays, the other with 2 trays having more large-format capacity. An SFM may also be installed after the printer module and used as an inserter. The Xerox Nuvera™ DPS paper latitude includes coated stocks. The Printer module prints at 4800 x 600 dpi utilizing a state of the art dual beam laser raster output scanner (ROS) with dedicated image processing hardware. The Finishing Transport Module (FTM) provides the capability to interface with a variety of production inline document finishing architecture (DFA) finishing devices. The Basic Finishing Module (BFM) stacks and provides stapling in single or dual positions. Up to two BFM modules (one a BFM Plus) can be used to enable continuous running with unload while run capability. A BFM Plus module can also be used in tandem with the FTM to enable inline DFA finishing.

Crucial Performance Expectations

The Xerox Nuvera™ 100/120/144 Digital Production System is a “clean-sheet” design utilizing innovative technologies. It is the new base platform for Xerox monochrome products.

The following expectations should be explicitly set. Please see the appropriate section of this CED for further detail.

Availability

The Xerox Nuvera™ 100/120/144 Digital Production System will be available on a monthly average 92 – 95% of the time.

- Availability is defined as all of the time the machine is not being serviced, or waiting for service.
- Given similar service coverage, DocuTech® / DocuPrint® availability averages up to 95%.

Power Up takes approximately 1 minute longer to complete than in the previous release (about 6½ to 7 minutes total on the current DocuSP® FreeFlow™ Controller (x86)).

Media Capability

- The Xerox Nuvera Digital Production system images on a wide range of both coated and uncoated papers. Results may vary depending on the paper used. We are pleased to consult with you to help you maximize your objectives.
- Coated papers less than 80 lb text (120 gsm) may experience degraded performance and are not recommended for high area coverage, for example, greater than 25%.
- Media capabilities vary with finishing options. Please refer to the System Media Capability table in this document. (p. 8)
- Reinforced stocks should be limited to 90 sheets loaded in a tray at one time
- Jobs must be run with straight (not reverse) collated tabs.
- **Envelopes**

Envelopes should be limited to 60 loaded in a tray at one time. Nuvera feeder trays feed until almost empty but not until empty, leaving 20~40 sheets remaining. When running envelopes frequent reloading of the feeder trays will be required.

Very slight wrinkles (1/2 inch long) may occur on the trail edge of envelopes at the corners.

Due to the nature of feeding envelopes with flap open, some mis-stacking may occur in the top tray as the envelopes catch on the open flaps.

Envelopes can only be sent to the Top Tray.

- **DocuCards**

DocuCards can only be loaded 100 at a time in a tray. Nuvera feeder trays feed until almost empty but not until empty, leaving 20~40 sheets remaining. When running DocuCards, frequent reloading of the feeder trays will be required.

DocuCards can only be run to the Top Tray of the finisher. Some mis-stacking may occur as the DocuCards catch on the edges of the stacked sheets.

When using DocuCards, it is recommended that you use a Tiltatron (available from CAS).

DocuCards are not supported on the Nuvera MX system.

FreeFlow™ DocuSP®

- The Token Ring option is no longer natively supported by DocuSP®. Customers requiring Token Ring connectivity should acquire a Token Ring to Ethernet bridge for their system.
- The PCI Ultra SCSI SE Host Adaptor kit for the QIC and 4mm tape drives used with previous Xerox Production Systems including the Xerox Nuvera™ 100 and 120 does not work with the Next Generation FreeFlow™ DocuSP® Controller now introduced in all Xerox Nuvera™ Production Systems. A compatible PCI ULTRA SCSI SE Host Adaptor kit for the Next Generation FreeFlow™ DocuSP® Controller is available as an option.
- DFA devices do not support single page offsetting specified within the job or set. Offset at job or set boundary is supported. Single page job or set will offset.
- There is no floppy drive on Nuvera. Resource loading may be accomplished via the LTO Tape option, QIC tape or over the network.
- The FreeFlow Print Manager Applet (previously available via clicking on the “Job Submission Applet” in the Web Browser) is no longer included with the system. Note that the standalone FreeFlow Print Manger product continues to be available for purchase.

Printer Module

- This is not a print to edge system due to potential image quality defects on the edge of the page.
- Printing on SRA3 can result in inboard and outboard edge image quality defects.
- The Nuvera Digital Production System provides very good support for imaging on pre-printed materials. However, to obtain best results, please follow the guidelines outlined here:

Design the pre-printed image so that no ink, varnish, or aqueous coating is placed in the area to be printed on by Nuvera. Toner does not adhere as well to the stock when printing over inks or varnish. If Nuvera must print over pre-printed ink, results are more likely to be acceptable if the color is screened back to less than 30%, or an uncoated base stock is used.

Use a laser-compatible printing process for the pre-printed stock. Choose inks, varnishes, and coatings that are temperature stable and have low levels of petroleum distillates. UV-cured inks are recommended, to insure complete curing before printing on with Nuvera. Do not use stock on Nuvera that has been pre-printed on xerographic equipment.

Select base paper stock approved for use on Nuvera (see the Compatible Media List section).

There are other factors that should be taken into account to successfully print on pre-printed stocks. Refer to the Xerox Nuvera™ DPS Paper Guide, available on Xerox.com, for additional considerations and performance expectations.

- Coated stocks may exhibit issues such as higher jam rates, smearing, loss of halftone image quality, mottle, light solid areas, and toner scatter.
- Heavier weight stocks (>220 gsm) may experience toner adherence permanence issues depending on the type of material being used. Please expect degraded performance with parchments, vellums, and other very smooth or very rough heavy weight stocks. As always, it is important to verify the application prior to any production run
- Coated stocks should be used in environmental conditions where the ambient temperature is between 60° and 72°F and the relative humidity is between 20% and 55%
- Images printed on Mylar tabs are typically degraded by toner scatter.
- Approved stocks can be found in the Compatible Media List in this document
- The MICR system, Xerox Nuvera™ MX, does not support printing on DocuCard, DocuClient, Never-tear, super-gloss, Teslin and transparencies stocks. It also does not support printing on coated (silk or gloss) stocks above 140 gsm.
- 8½" x 14" paper is loaded short edge feed and runs at 72 pages per minute simplex on 120 and 144 PPM configurations and runs at 60 pages per minute on a 100 PPM configuration. Refer to the Printer Module Section for a summary of engine speed for various paper sizes.
- Windowed stock is not supported.
- When feeding paper smaller than 8½" (216mm) in the cross process direction, there may be some degradation of image quality. It is recommended that the customer test their applications for such cases.

Insertor Module

- LCDS and IPDS applications are currently not able to pull paper stocks from the Insertion Module.

Finishing Devices

Substrates that tend to exhibit curl when being fed through the Xerox Nuvera™ system can cause functional problems in the finishing devices. It may be necessary to adjust the manual decurler in order to get the substrate to become flatter, so that the finishing operation can be successfully completed. The proper decurler setting will vary depending on the substrate and the ambient environmental conditions. Paper left opened overnight may exacerbate curl.

Finishing Transport Module (FTM) with Document Finishing Architecture (DFA) finishing

- The DS5000, Bourg BDFx, and Xerox Square Fold Booklet Maker support a specific range of coated paper; all other supported inline DFA finishing devices do not support coated paper. Refer to specific solution planning guides for details.
- Paper latitudes are unique for each inline finishing solution.
- The Xerox SquareFold Booklet Maker Covers Insertion Module (CIM) is not supported for the SquareFold Booklet Maker. As an alternative, the Insertor Module can be used for covers insertion except when sending LCDS or IPDS jobs. The Bourg BDFx Booklet Maker with the BCFx Covers Feeder can be used with LCDS or IPDS jobs that require covers.
- Supported Inline DFA Finishing Solutions are compatible with specific Xerox Nuvera configurations. Consult finisher module details in this document and, for more details, the Solutions Planning Guideline for the selected DFA Finishing device. The Finishing Solutions Planning Guides can be accessed by Xerox sales Reps at <http://xwww.thefic.xerox.com/dsweb/View/Collection-113169>.

Basic Finishing Module (BFM) and Basic Finishing Module (BFM Plus)

- The machine may produce curl that will require intervention with the decurler and the paper supply. Paper handling within the finisher is best if the paper curl is adjusted to be flat or toward the image direction. See the User Guide: Problem Solving - Paper Curl, Adjust the Decurler.
- The BFM and BFM Plus do not offset paper sizes larger than 11x17" / A3. This means that 12x18, 12x18.5, SRA3 cannot be offset. For these sizes, software ignores any offset programming selection.
- For reliable stacking, stack size should be limited for certain jobs:
 - Stapled sets of 15 sheets or smaller are limited by machine control to 100 sets.
 - Stapled sets of coated stocks stack less well, and should be managed to 50 by the operator.
 - Stapled sets should be offset stacked.
 - The stack height limit can be operator adjusted.

- Banner and slip sheets should be greater than or equal to 90 gsm (24 lb bond)
- Slip-sheets must be the same size as the body sheets
- When stapling sets with mixed size stock, the stock must be the same dimension in the Across Feed direction, and the dimension differences should be within 13mm (½”) in the feed direction.
- Drilled paper must be loaded with the holes leading (e.g. to the left) when using two Basic Finishing Modules.

FreeFlow Digital Workflow Collection

- FreeFlow™ Makeready, Web Services and Process Manager, versions 4.0 and higher, provide support for the Xerox Nuvera™ 100/120 DPS; similarly, versions 5.x provide support for the Xerox Nuvera™ 144 DPS (compatibility support is provided in versions 4.x). Customers with earlier versions of these applications may need to upgrade since SPAR support will not be available.

New Capabilities with Xerox Nuvera™ System Release 7.0

- Single and dual BFM, or a single BFM bypass to FTM, on the 144 ppm Nuvera configuration. Use of an insertion module is also supported in such configurations.
- Basic Finishing Module (BFM, BFM Plus) improvements
 - Improved stacking quality for small sets (sets with small number of pages in a set)
- The Large Format Sheet Feed Module (comes with 2 trays) can now be used as an insertion module.
- Auto Tray Switching enhancement to match legacy DocuTech/DocuPrint behavior, where when a tray goes empty and a switch occurs, the new tray is fed from until it needs to be re-filled, instead of only until the previous tray has been refilled.
- Improved compatibility with legacy DocuPrint NPS products
 - Emulation of the NPS Duplex activate/deactivate behavior
 - The /setpapertray custom NPS operator command is now ignored; thus jobs are no longer faulted when this command is encountered
 - Addition of new 2-sided media attribute setting conflict handling choice of applying side 1 attributes to the side 2 page (existing choices include move side 2 image to next page and apply side 2 attributes to side 1)
 - NPS background forms support enhancements, enabling the choice of using legacy NPS created forms or DocuSP forms from previous releases. Also included is an NPS form migration capability.
 - Support for resource based scheduling of jobs based on the %%DocumentMedia command, preventing NPS jobs from running if all specified required media is not present
- LCDS support enhancements
 - Inclusion of completion codes on the LCDS accounting sheet
 - System Backup and Restore support for tape drives
 - Support for LTO-2 tape drives
 - DJDE stapling enablement for each individual report within the job
- IPDS support enhancement
 - User selection of the half-tone screens available on Nuvera
 - Margin settings can be set by media
- PCL support enhancement
 - Support for Output Bin Selection command
- Hot Folders - Provides a general hot folder submission mechanism for data streams (PDF, PS, PCL, TIFF, VIPP and VIPP Projects are supported), including optional submission of XPIF job tickets.
- Addition of version control to the accounting CSV reports, such that customers can choose which version of the “Record Layout Definition” (CSV) file format to use when exporting the accounting data

System Media Capability– Xerox Nuvera™

With individual Output / Finishing Devices

| Production System with various finishing options | Dimension | | Weight | |
|--|---------------------------------|----------------------------------|--|---|
| | Process Direction | Cross Process Direction | Uncoated stock | Coated stock |
| Basic Finishing Module (BFM) | 7.0 – 18.5 in. 178 – 470 mm | 8.0 – 12.0 in. 203 – 305 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| BFM Top Tray | 5.5 – 18.5 in. 140 – 470 mm | 6.9 – 12.6 in. 175 – 320 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| BFM Plus | 5.5 – 18.5 in. 140 – 470 mm | 8.0 – 12.6 in. 203 – 320 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| Finishing Transport Module (FTM) Top Tray | 5.5 – 18.5 in. 140 – 470 mm | 8.0 – 12.6 in. 203 – 320 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| FTM bypass throughput without rotation | 5.5 – 18.5 in. 140 – 470 mm | 8.0 – 12.6 in. 203 – 320 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| FTM bypass output with rotation | 10.0 – 12.6 in. 254 – 320 mm | 7.0 – 14.3 in. 178 – 363 mm | 16 lb. bond – 90 lb. cover 56 – 250 gsm | 60 lb text – 90 lb cover 90 – 250 gsm |
| DS 5000 High Capacity Stacker | 7.0 – 18.5 in. 178 – 470 mm | 10.0 – 14.3 in. 254 – 363 mm | 16lb bond – 80 lb cover 56 – 220 gsm | 80 lb text – 80 lb cover 120 – 220 gsm |
| CP Bourg BDFx Booklet Maker Optional BCFx Covers Feeder | 7.0 – 18.5 in. 178 – 470 mm | 10 – 12.6 in. 254 – 320 mm | Body Stock: 16 lb bond – 110 lb index 60 – 200 gsm Cover Stock: 20 lb. bond – 10 pt cover 80 – 300 gsm Cover stock from BCFx: 20 lb. bond – 10 pt cover 80 – 300 gsm | Supported per the specifications included in the CP Bourg BDFx Booklet Maker Solutions planning guide |
| Xerox SQUAREFOLD® Booklet Maker | 7.0 – 18.2" 178 – 462 mm | 8.0 – 12.6 in. 203 – 320 mm | 16 lb bond – 110 lb. index 60 – 200 gsm | Supported per the specifications included in the Xerox SQUAREFOLD® Booklet Maker Solutions planning guide |
| GBC Fusion Punch II | 7.0 – 17.0 in. 178 – 432 mm | 10.0 – 11.0 in. 254 – 279 in. | 16 lb bond – 90 lb. cover 60 – 200 gsm | -- |
| Xerox DB120-D Document Binder | A4, Letter LEF 210 – 216 mm | A4, Letter LEF 279 – 297 mm | 18 lb - 32 lb bond 68 – 120 gsm (120 gsm should be used only as cover, dividers and inserts) | -- |
| Xerox Manual & Book Factory BBF2005 No BPRF | 5.5 - 12.0 in. 140 – 305 mm | 8.0 – 14.0 in 203 – 356 mm | w/o BPRF (refer to the SPG for more information) Book Body: 16 lb – 40 lb bond 60 – 158 gsm | -- |
| With BPRF | 5.5 – 17.0 in. 140 – 432 mm | 8.0 – 14.0 in 203 – 356 mm | Covers: 30 lb – 90 lb cover | -- |

| Production System with various finishing options | Dimension | | Weight | |
|--|--------------------------------|-------------------------------|---|--------------|
| | Process Direction | Cross Process Direction | Uncoated stock | Coated stock |
| BPRF & 18.5 in fold plate | 5.5 – 18.5 in. 140 – 470 mm | 8.0 – 14.0 in 203 – 356 mm | 63 – 250 gsm Min. Untrimmed book size: 8.25 x 5.5 in. (210 x 140 mm) Max. Untrimmed book size: 14.0 x 12.0 in. (356 x 305 mm) | |

Note. DFA finishing throughput entries assume finisher is immediately downstream from the FTM.

System Product Specifications Overview

Optimum Product Performance

Print Volume Range

The Xerox Nuvera™ 100/120/144 Digital Production System is designed for an Average Monthly Print Volume (AMPV).

| System | AMPV | Conditions |
|--|---|---------------------|
| Xerox Nuvera™ 100/120/144 Digital Production System | 100K – 1.5M (PS 100/120) 150 K – 2.0M (PS 144) | 8.5 in. x 11 in./A4 |

Maximum Duty Cycle: Up to 3.7 million prints per month with the Xerox Nuvera™ 144.

Duty Cycle is defined as:

The maximum recommended monthly copy / print volume support under standard vendor supplied service (3 x 7 shift coverage). This defines the upper end of expected customer volume band for the device.

The Customer should consider higher volume machines or multiple machines if average monthly volume approaches Duty Cycle on a constant basis.

Prints between service calls on a digital Xerox Nuvera™ DPS are dependent on customer requirements for volume, applications, and throughput material. Specific customer requirements for Image Quality may further impact the number of service calls. Xerox Nuvera™ trained operators can optimize performance output and minimize service calls.

Environmental Factors

| Environmental Factor | | Minimum | Maximum |
|---|-------------------------|--|--|
| Temperature | | 50° F (10° C) (Tested to 60° F (15.6° C)) | 90° F (32.2° C) (Tested to 80° F (26.7° C)) |
| Humidity | | 15% RH (Tested to 15%) | 85% RH (Tested to 80%) |
| Heat Emission (approximate) (SFM, Print Engine, BFM) | | 2,470 BTU / HR (Standby) | 18,738 BTU / HR (Running) |
| Power Consumption (approximate) | | 0.723 kw (Standby) | 5.885 kw (Running) |
| Noise (Approximate sound pressure level with 9 microphone average) | SFM / PM / BFM | 39.2 dBA - Standby | 66.1 dBA - Maximum 63.1 dBA - Printing |
| | SFM / PM / FTM | 41.5 dBA - Standby | 67.5 dBA - Maximum 63.5 dBA - Printing |
| | SFM / PM / FTM / DS5000 | 54.8 dBA - Standby | 69.9 dBA - Maximum 66.2 dBA - Printing |
| Altitude (above sea level) | | 0 | 10,000 ft. |
| Nominal Voltage (Processor) | | 200 | 240 |

Product Space & Power Requirements

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comments |
|----------------------------------|--|--|
| Size – Printer w/ 1 SFM & FTM | 110" (W) X 29" (D) X 46.3" (H) 2794 mm x 711.2 mm x 1176 mm | Printer Digital Tower 61.6" (1565 mm) (Height) DFA finishing devices vary by device*. |
| Size – Printer w/ 1 SFM & BFM | 108" (W) X 28" (D) X 46.3" (H) 2741 mm x 711 mm x 1176 mm | |
| Width of additional SFM | 31.7", 805mm | Optional |
| Width of BFM Plus | 48", 1220mm | Optional, BFM Plus used with BFM (with top tray) in dual BFM installations. |
| Service Space | 128" (W) x 113" (D) 3251mm x 2870 mm | At least 30" from the wall in rear. DFA finishing will increase width. |
| Weight | 1545 lb. (701 kg) Additional SFM – 423 lbs. (192 kg) | With consumables loaded, except media |
| Power Requirements North America | 208 Volts / 30 Amp sole use, 60 Hz Single phase, 3 wire + PE (L1, L2, N, GND) | <ul style="list-style-type: none"> • UL & cUL compliant • Complies with the FEMP (Federal Energy Management Program) via machine circuit breaker (CB); with the CB switched off, the system consumes less than 1 watt. |
| Power Requirements Europe /Japan | 200-240 Volts / 25 Amp sole use, 50 Hz Single phase, 2 wire + PE (L, N, GND) | <ul style="list-style-type: none"> • Units are compliant with applicable EU directives and are CE marked |

*-Please refer to supported inline DFA finishing devices Solution Planning Guides for Product Space and Power Requirements.

System Configuration and Installation

Installation Preparation Document

This section should be used in conjunction with the **Xerox Nuvera™ 100/120/144 Digital Production System Installation Planning Guide (IPG)**, the **Xerox Nuvera™ 100/120/144 Digital Production System Installation Preparation Document (IPD)**, and the supported inline DFA Finishing Device **Solution Planning Guide**, which contain detailed specifications for size, weight, electric, and environmental conditions. Only the most important requirements are stated here.

Customer Responsibilities

The following must be completed before system delivery and will be assessed in the final site check:

| Item | Comments |
|---|---|
| Identify placement of the system | |
| Ensure the printer can be delivered to the site | |
| Supply the appropriate electrical connections | Dedicated power required |
| Install an exhaust duct to vent hot air to the air system or the outside if required | Heat vent kit is available. The kit lowers the system's output from approximately 18,700 BTU/hour to 8,500 BTU/hr. |
| Install a network drop for Internet access | Automatic upload of data for remote diagnostics |
| Verify the strength and slope of the floor | |
| Meet room Environmental Specifications for temperature and relative humidity year round | This is essential to the system's ability to perform as expected; Xerox will not be able to resolve performance problems encountered when the area is not maintained within this operating range. |
| Connect system to network including proxy server information | |

System Installation

Allow up to 9 to 11 hours to complete the system installation. More time may be necessary with some finishing device configurations.

Availability

As with any other printing process, you will not plan production to the raw speed of the printer.

Your Xerox Nuvera™ 100/120/144 Digital Production System will be available to you on a monthly average 92% to 95% of the time.

- Availability is defined, as all the time the machine is not being serviced or waiting for service by Xerox.
- Given similar service coverage, DocuTech® / DocuPrint® availability averages up to 95%.

Although the service call rate may exceed current DocuTech® products in the same speed range, overall system availability will become comparable.

Planning for volume requires taking many factors into account in addition to printer availability. These factors include pre-press workflow efficiency, job type and client expectations, use of qualified stocks, daily volume and number of jobs, job mix, area coverage, adherence to environmental specifications, and operator expertise and attention to procedures.

Operations

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comment |
|-----------------------------|---|---|
| Power Up | 6½ to 7 minutes | If the environment does drift outside the specified range during the systems powered down state, some period of image degradation can be expected at startup. |
| First Copy Out Time (FCOT) | 7.5 seconds | Copy job sent to the top tray; platen scan, simplex job, 8.5 x 11 LEF fed from tray 1. |
| First Print Out Time (FPOT) | 9.5 seconds. | Printer should not cycle down as long as it receives an image to print within 5 seconds of completing the previous sheet. |
| Restart Time | 5 minutes | |
| Billing Meters | Available via the Administration window. | Vary by operating company / country; ask local analyst or sales representative to explain your meter operation. Automated reading of the billing meter is available, if Remote Services are enabled. |
| Print Quality Adjustments | Automatic, brief pauses for registration or xerographic process adjustments to maintain high image quality | |
| Mixed Plex Printing | Switching between one-sided and two-sided printing does cause some loss of productivity. The extent of the loss is directly related to the frequency of the switch. | When producing collated sets run 1 to N, the system already optimizes performance. In other cases, adding a blank side to the job can minimize impact, but the sheet is billed. |

Supplies and Component Yields

The consumable supplies listed below are engineered specifically for use in the Xerox Nuvera™ 100/120/144 Digital Production System and provide the highest and most consistent image quality, maximum machine productivity, and uptime.

All yield estimates are based on the indicated 6% area coverage at standardized conditions using 8 ½" x 11" / A4 Xerox 20 lb. bond (75 gsm) stock. Please note that actual yields vary greatly depending on area coverage, paper stock, and image quality control settings. The current estimates are shown below.

Consumables

| Supply | Yield Estimates |
|---|--|
| Toner | 110,000 prints/ 10 lb. drum; 2 per system |
| MICR toner for MX system | 90,000 prints/ 11.1 lb drum; 2 per system |
| BFM 100 Sheet Staple refills and drivers. | 15,000 staples per supply package, The package contains three 5000 staple refills and 3 drivers |
| BFM 30 Sheet Staple refills and drivers | 15,000 staples per supply package, The package contains three 5000 staple refills and 3 drivers |

Customer Replaceable Units

| CRU | Yield Estimates |
|------------------------|-----------------|
| Waste Toner Bottle | 750,000 prints |
| Waste Developer Bottle | 350,000 prints |

Disposal Process

All Toner Waste Bottles include a prepaid return shipping label, plastic bag, and tie in the box. This is the preferred method of disposal.

Empty dry ink containers and waste containers are safe and approved for local recycling with common commercially used plastics.

More information can be found at www.Xerox.com, under Online Supplies Ordering, Cartridge Recycling Program.

Xerox Productivity Plus (XPP)

The XPP option provides capability for the advanced customer to carry out certain maintenance activities. Before this capability can be enabled at a customer location, the customer personnel who will be performing maintenance need to be trained and certified by Xerox. Training is delivered in two phases. Each phase is one day of training. Customers may elect to participate only in phase one or in both phases. Phase 1 training covers use of diagnostic routines, photoreceptor removal and replacement, and power supply filter replacement. Phase 2 covers fuser and corotrons. A manual and tool kit is provided with the training. Specific parts will be provided as on-site inventory.

prInteract (formerly Remote Services)

The Xerox Nuvera™ Digital Production System is enabled with Remote Service features, including Automated Remote Monitoring and On Demand Machine Data Transfer. Remote Services provides the ability for the Xerox Nuvera™ Digital Production System to securely transport the device's service and engineering data to a Xerox support server within Xerox's firewalled environment. Data is transported through the network using industry standard 128-bit encryption and Secure Socket Layer (SSL) transport protocols.

Enablement of Remote Data Transfer requires two steps:

- Populating of the customer's machine serial number into the Xerox server. This occurs at order placement if the customer selects the CONNECT option.
- Installing the customer's proxy server or Firewall information address on the machine. (Reference the System Administration Guide for details.)

To sign up for Meter Assistant, customers or Sales Specialists should visit xerox.com: [Customer Resources: Submit Meter Reads](#) for more information.

Kit Limitations

The Foreign Device Interface (FDI) kit and the Removable Hard drive kit cannot be installed on the same system.

Compatible Media List

The media listed on the following pages have been tested and approved for use in the Xerox Nuvera™ DPS (when using a supported Inline DFA Finishing device, please refer to the individual Inline DFA Finishing Device Solution Planning Guide for a list of supported media types).

The Xerox Nuvera™ Digital Production system images on a wide range of both coated and uncoated papers. Results may vary depending on the paper used. We are pleased to consult with you to help you maximize your objectives.

Coated stocks should be used in environmental conditions where the ambient temperature is between 60° and 72°F and the relative humidity is between 20% and 55%. Coated stocks may exhibit issues such as higher jam rates, smearing, loss of halftone image quality, mottle, light solid areas, and toner scatter. Optimized printing may not be possible across the entire weight range of coated papers. Coated stocks under 120gsm may exhibit degraded performance - avoid any images with greater than 25% toner area coverage and dark images along the lead edge of sheets; also, machine to machine variation and tolerance stack ups may result in successful performance on one machine and not another.

Successful printing on pre-printed stocks is dependent upon many factors. Additional information and performance expectations are provided in the Xerox Nuvera™ DPS Paper Guide.

The Xerox Supplies Group will be available to test particular media in a customer's application.

For more information about media, please see the Xerox [Nuvera™ Digital Production System Paper Guide available at \[www.xerox.com\]\(http://www.xerox.com\)](#).

For information regarding specific substrates use in the Xerox Nuvera™ DPS, please call Xerox Supplies at (800) 822-2200.

For More Information and Pricing contact your Xerox Supplies Representative, authorized Xerox merchant, or visit us on the web at www.xerox.com.

Xerox Paper and Specialty Media Products Compatibility Matrix

Xerox Nuvera™ 100/120/144 Digital Production Systems

Note:
 * - Items (Reorder Nos.) marked with an * are not compatible with the Nuvera MX (MICR) products

Punched Papers

| Reorder No. | Product Description |
|-------------|------------------------------------|
| 3R4904 | 19-Hole for Binders ≥½” (BMP 4200) |
| 3R4905 | 19-Hole for Binders <½” (BMP 4200) |
| 3R5134 | 11-Hole (BMP 4200) |
| 3R5818 | 44-Hole (BMP 4200) |
| 3R12163 | 2-Hole short edge (BMP 4200) |
| 3R12164 | 5-Hole short edge (BMP 4200) |
| 3R12165 | 5-Hole long edge (BMP 4200) |
| 3R4299 | 3-Hole Ring Tuff (PMP 4024) |

Perforated Papers

| Reorder No. | Product Description |
|-------------|---|
| 3R4160 | 0.5” from left 9 x 11 (20# PMP 4024) |
| 3R4175 | 0.5” from left 8.5 x 11 (20# PMP 4024) |
| 3R4900 | 3.5” from bottom 8.5 x 11 (24# PMP 4024) |
| 3R4901 | 3¾” from bottom 8.5 x 11 (24# PMP 4024) |
| 3R5125 | 3.5” from bottom 8.5 x 11 (20# PMP 4024) |
| 3R5126 | 3¾” from bottom 8.5 x 11 (24# PMP 4024) |
| 3R12166 | 5.5” from bottom 8.5 x 11 (20# PMP 4024) |
| 3R5430 | Green Check Stock 8.5 x 11 (24# PMP 4024) |
| 3R5431 | Blue Check Stock 8.5 x 11 (24# PMP 4024) |

Laser/Inkjet Labels

| Reorder No. | Product Description |
|-------------|------------------------------------|
| 3R12050 | 33-up (label 2.83 x 1.00) 8.5 x 11 |
| 3R12051 | 30-up (label 2.59 x 1.00) 8.5 x 11 |
| 3R12052 | 24-up (label 2.65 x 1.25) 8.5 x 11 |
| 3R12053 | 20-up (label 4.00 x 1.00) 8.5 x 11 |
| 3R12055 | 10-up (label 4.00 x 2.00) 8.5 x 11 |
| 3R12056 | 8-up (label 4.25 x 2.74) 8.5 x 11 |
| 3R12057 | 1-up (label 8.5 x 11) 8.5 x 11 |

Transparencies

| Reorder No. | Product Description |
|-------------|-------------------------|
| 3R3108* | Removable Stripe |
| 3R6218* | 3-Hole Removable Stripe |
| 3R3117* | Clear |
| 3R2780* | Painted Stripe |
| 3R3028* | Paperback |

NeverTear Paper

| Reorder No. | Product Description |
|-------------|---------------------|
| 3R3109* | 8.5 x 11 3-Hole |
| 3R3118* | 8.5 x 11 |

Tabs

| Reorder No. | Product Description |
|-------------|--|
| 3R4417 | 90# white 5-Bank (163 g/m ²) Straight Collated Paper |
| 3R5709 | 90# clear plastic 5-Bank (163 g/m ²) Straight Collated Plastic |
| 3R12368 | 60# Xpressions+ white 5-Bank (163 g/m ²) Straight Collated Paper |

High Speed Labels

| Reorder No. | Product Description |
|-------------|------------------------------------|
| 3R4476 | 1-up (label 8.5 x 11) 8.5 x 11 |
| 3R3146 | 6-up (label 4.25 x 3.66) 8.5 x 11 |
| 3R4475 | 8-up (label 4.25 x 2.74) 8.5 x 11 |
| 3R5719 | 14-up (label 4.25 x 1.59) 8.5 x 11 |
| 3R4474 | 24-up (label 2.83 x 1.31) 8.5 x 11 |
| 3R3139 | 33-up (label 2.83 x 1.00) 8.5 x 11 |

DuraPaper

| Reorder No. | Product Description |
|-------------|---------------------|
| 3R12063* | 11 x 17 |
| 3R12064* | 8.5 x 11 |
| 3R12065* | 8.5 x 11 3-Hole |

Document Folders

| Reorder No. | Product Description |
|-------------|---------------------|
| 3R4885 | 90# Docupac |
| 3R5105 | 65# Laser Docupac |

Color Xpressions+ (98 Bright)

| Reorder No. | Product Description |
|-------------|--|
| 3R11540 | 24# (90 g/m ²) 8.5 x 11 |
| 3R11541 | 24# (90 g/m ²) 8.5 x 11 3-Hole |
| 3R11542 | 24# (90 g/m ²) 8.5 x 14 |
| 3R11543 | 24# (90 g/m ²) 17 x 11 SG |
| 3R11545 | 28# (105 g/m ²) 8.5 x 11 |
| 3R11546 | 28# (105 g/m ²) 8.5 x 11 3-Hole |
| 3R11549 | 28# (105 g/m ²) 17 x 11 SG |
| 3R11548 | 28# (105 g/m ²) 18 x 12 SG |
| 3R11550 | 32# (120 g/m ²) 8.5 x 11 |
| 3R11551 | 32# (120 g/m ²) 17 x 11 SG |
| 3R11552 | 32# (120 g/m ²) 18 x 12 SG |
| 3R11553 | 60# Cover (163 g/m ²) 8.5 x 11 |
| 3R11554 | 60# Cover (163 g/m ²) 17 x 11 SG |
| 3R11555 | 60# Cover (163 g/m ²) 18 x 12 SG |
| 3R11556 | 80# Cover (216 g/m ²) 8.5 x 11 |
| 3R11557 | 80# Cover (216 g/m ²) 17 x 11 SG |
| 3R11558 | 80# Cover (216 g/m ²) 18 x 12 SG |

Digital Color Elite Gloss C2S

| | Product Description |
|----------|--|
| 3R11450 | 80# Text (120 g/m ²) 8.5 X 11 |
| 3R11451 | 80# Text (120 g/m ²) 17 X 11 SG |
| 3R11452 | 80# Text (120 g/m ²) 18 X 12 SG |
| 3R11454 | 100# Text (140 g/m ²) 8.5 X 11 |
| 3R11455 | 100# Text (140 g/m ²) 17 X 11 SG |
| 3R11456 | 100# Text (140 g/m ²) 18 X 12 SG |
| 3R11458* | 80# Cover (210 g/m ²) 8.5 X 11 |
| 3R11459* | 80# Cover (210 g/m ²) 17 X 11 SG |
| 3R11460* | 80# Cover (210 g/m ²) 18 X 12 SG |

Digital Color Select Gloss C2S

| Reorder No. | Product Description |
|-------------|--|
| 3R11503* | 80# Text (120 g/m ²) 17 X 11 SG |
| 3R11504* | 80# Text (120 g/m ²) 18 X 12 SG |
| 3R11506* | 80# Cover (210 g/m ²) 17 X 11 SG |
| 3R11507* | 80# Cover (210 g/m ²) 18 X 12 SG |

Digital Color Supreme Gloss C1S

| Reorder No. | Product Description |
|-------------|---|
| 3R11430* | 8 Point (160 g/m ²) 8.5 x 11 |
| 3R11431* | 8 Point (160 g/m ²) 17 x 11 SG |
| 3R11432* | 8 Point (160 g/m ²) 18 x 12 SG |
| 3R11434* | 10 Point (210 g/m ²) 8.5 x 11 |
| 3R11435* | 10 Point (210 g/m ²) 17 x 11 SG |
| 3R11436* | 10 Point (210 g/m ²) 18 x 12 SG |

Graphic Xpressions (98 Bright)

| Reorder No. | Product Description |
|-------------|--|
| 3R11152 | 24# (90 g/m ²) 8.5 x 11 |
| 3R11153 | 24# (90 g/m ²) 8.5 x 11 3-Hole |
| 3R11154 | 24# (90 g/m ²) 17 x 11 SG |
| 3R5529 | 28# (105 g/m ²) 8.5 x 11 |
| 3R5530 | 28# (105 g/m ²) 17 x 11 SG |
| 3R5531 | 28# (105 g/m ²) 18 x 12 SG |
| 3R5533 | 65# Cover (176 g/m ²) 8.5 x 11 |
| 3R5534 | 65# Cover (176 g/m ²) 17 x 11 SG |
| 3R5535 | 65# Cover (176 g/m ²) 18 x 12 SG |
| 3R5537 | 80# Cover (216 g/m ²) 8.5 x 11 |
| 3R5538 | 80# Cover (216 g/m ²) 17 x 11 SG |
| 3R5539 | 80# Cover (216 g/m ²) 18 x 12 SG |
| 3R11164 | 28# (105 g/m ²) 8.5 x 11 Cream White |
| 3R11165 | 28# (105 g/m ²) 8.5 x 11 Warm White |
| 3R11168 | 28# (105 g/m ²) 17 x 11 SG Cream White |
| 3R11169 | 28# (105 g/m ²) 17 x 11 SG Warm White |
| 3R11172 | 28# (105 g/m ²) 18 x 12 SG Cream White |
| 3R11173 | 28# (105 g/m ²) 18 x 12 SG Warm White |
| 3R11176 | 80# Cover (216 g/m ²) 8.5 x 11 Cream White |
| 3R11177 | 80# Cover (216 g/m ²) 8.5 x 11 Warm White |
| 3R11180 | 80# Cover (216 g/m ²) 17 x 11 SG Cream White |
| 3R11181 | 80# Cover (216 g/m ²) 17 x 11 SG Warm White |
| 3R11184 | 80# Cover (216 g/m ²) 18 x 12 SG Cream White |
| 3R11185 | 80# Cover (216 g/m ²) 18 x 12 SG Warm White |

Digital Color Elite Silk C2S

| Reorder No. | Product Description |
|-------------|--|
| 3R11470 | 80# Text (120 g/m ²) 8.5 X 11 |
| 3R11471 | 80# Text (120 g/m ²) 17 X 11 SG |
| 3R11472 | 80# Text (120 g/m ²) 18 X 12 SG |
| 3R11474 | 100# Text (140 g/m ²) 8.5 X 11 |
| 3R11475 | 100# Text (140 g/m ²) 17 X 11 SG |
| 3R11476 | 100# Text (140 g/m ²) 18 X 12 SG |
| 3R11478* | 80# Cover (210 g/m ²) 8.5 X 11 |
| 3R11479* | 80# Cover (210 g/m ²) 17 X 11 SG |
| 3R11480* | 80# Cover (210 g/m ²) 18 X 12 SG |

Business 4200 Paper (92 Bright)

| Reorder No. | Product Description |
|-------------|---|
| 3R2047 | 20# (75 g/m ²) 8.5 x 11 |
| 3R2641 | 20# (75 g/m ²) 8.5 x 11 3-Hole |
| 3R2051 | 20# (75 g/m ²) 8.5 x 14 |
| 3R3761 | 20# (75 g/m ²) 11 x 17 |
| 3R2531 | 24# (90 g/m ²) 8.5 x 11 |
| 3R3317 | 24# (90 g/m ²) 8.5 x 11 3-Hole |
| 3R3871 | 24# (90 g/m ²) 11 x 17 |
| 3R2353 | 28# (105 g/m ²) 8.5 x 11 |
| 3R3873 | 28# (105 g/m ²) 11 x 17 |
| 3R3041 | 65# Cover (176 g/m ²) 8.5 x 11 |
| 3R3004 | 90# Index (163 g/m ²) 8.5 x 11 |
| 3R5102 | 90# Index (163 g/m ²) 11 x 17 |
| 3R6383 | 110# Index (203 g/m ²) 8.5 x 11 |

Business Recycled Paper (30% PCW, 92 Bright)

| Reorder No. | Product Description |
|-------------|--|
| 3R6296 | 20# (75 g/m ²) 8.5 x 11 |
| 3R6297 | 20# (75 g/m ²) 8.5 x 11 3-Hole |
| 3R6298 | 20# (75 g/m ²) 8.5 x 14 |
| 3R6299 | 20# (75 g/m ²) 11 x 17 |

Digital Color Parchments

| Reorder No. | Product Description |
|-------------|---|
| 3R11244 | 24# (90 g/m ²) 8.5 x 11 White |
| 3R11245 | 24# (90 g/m ²) 8.5 x 11 Gold |

Carbonless Papers **

| Reorder No. | Product Description |
|-------------|--|
| 3R12374 | 11", 2 part straight/reverse, w/c |
| 3R12375 | 11", 2 part, straight/reverse, w/p |
| 3R12377 | 14", 2 part, straight/reverse, w/c |
| 3R12378 | 17", 2 part, straight/reverse, w/c |
| 3R12379 | 11", 3 part, reverse, p/c/w |
| 3R12380 | 11", 3 part, straight, w/c/p |
| 3R12382 | 14", 3 part, straight w/c/p |
| 3R12383 | 17", 3 part, straight w/c/p |
| 3R12387 | 9" x 11", vert Perf 3 part, straight w/c/p |
| 3R12388 | 8.5" x 11", vert Perf 3 part, straight w/c/p |
| 3R12384 | 11", 4 part, reverse, g/c/p/w |
| 3R12385 | 11", 4 part, straight, w/c/p/g |
| 3R12386 | 14", 4 part, straight, w/c/p/g |

**Basic Finisher Module and BFM Plus: use Reverse Collated Carbonless.
DS 5000 Finisher: use Straight Collated Carbonless.

Digital Laser Opaque Paper

| Reorder No. | Product Description |
|-------------|--|
| 3R5670 | 18# (67.5 g/m ²) 8.5 x 11 White |
| 3R5672 | 18# (67.5 g/m ²) 17 x 11 SG White |
| 3R5664 | 20# (75 g/m ²) 8.5 x 11 White |
| 3R5666 | 20# (75 g/m ²) 17 x 11 SG White |
| 3R5675 | 20# (75 g/m ²) 8.5 x 11 Natural |
| 3R5667 | 24# (90 g/m ²) 8.5 x 11 White |
| 3R5669 | 24# (90 g/m ²) 17 x 11 SG White |
| 3R6279 | 24# (90 g/m ²) 8.5 x 11 Natural |
| 3R5725 | 28# (105 g/m ²) 8.5 x 11 White |
| 3R5673 | 65# Cover (176 g/m ²) 8.5 x 11 White |
| 3R5674 | 65# Cover (176 g/m ²) 17 x 11 SG White |

Multipurpose Pastel Colors

| 20# (75 g/m ²) | | | | |
|----------------------------|----------|----------|----------|---------|
| | 8.5 x 11 | 11" 3-HD | 8.5 x 14 | 11 x 17 |
| Blue | 3R11050 | 3R11062 | 3R11074 | 3R11086 |
| Green | 3R11051 | 3R11063 | 3R11075 | 3R11087 |
| Pink | 3R11052 | 3R11064 | 3R11076 | 3R11088 |
| Yellow | 3R11053 | 3R11065 | 3R11077 | 3R11089 |
| Buff | 3R11054 | 3R11066 | 3R11078 | 3R11094 |
| Goldenrod | 3R11055 | 3R11067 | 3R11079 | 3R11093 |
| Ivory | 3R11056 | 3R11068 | 3R11080 | 3R11090 |
| Gray | 3R11057 | 3R11069 | 3R11081 | 3R11091 |
| Salmon | 3R11058 | N/A | 3R11084 | N/A |
| Tan | 3R11061 | N/A | 3R11085 | N/A |
| Lilac | 3R11059 | 3R11070 | 3R11082 | 3R11092 |
| Cherry | 3R11060 | N/A | 3R11083 | N/A |
| Rainbow | 3R11100 | N/A | N/A | N/A |

| 90# Index (163 g/m ²) 8.5 x 11 | | | | |
|--|--------|--------|--------|--------|
| Blue | Yellow | Green | Gray | Ivory |
| 3R5294 | 3R5295 | 3R5296 | 3R5297 | 3R5298 |

| 65# Cover (176 g/m ²) 8.5 x 11 | | | | |
|--|--------|--------|--------|--------|
| Blue | Yellow | Green | Gray | Ivory |
| 3R5301 | 3R5302 | 3R5303 | 3R5304 | 3R5305 |

Multipurpose Solar Flares

| | 24# (90 g/m ²) | 90# (163 g/m ²) Index |
|-----------------|----------------------------|-----------------------------------|
| Super Nova Blue | 3R6389 | 3R6399 |
| Galactic Green | 3R6390 | 3R6400 |
| Sunset Pink | 3R6388 | 3R6398 |
| Sunflare Yellow | 3R6391 | 3R6401 |
| Fireball Red | 3R6392 | 3R6402 |
| Gamma Green | 3R6396 | 3R6406 |
| Cosmic Orange | 3R6397 | 3R6407 |
| Rainbow | 3R6393 | 3R6403 |

Product Specifications Overview by Sub-System

The following sections give more detailed descriptions of the capabilities and limitations of each of the major system components.

FreeFlow Makeready, Web Services and Process Manager



Version 5.0 of FreeFlow Makeready, Web Services and Process Manager is available and provides support for Xerox Nuvera™ 100/120/144 Digital Production System image quality and job ticketing, as well as IQI (Image Quality Interoperability).

Customers with earlier versions of these FreeFlow applications may need to upgrade since SPAR support will not be available.

Early versions of DigiPath (4.0 or below) have not and will not be changed to support the Xerox Nuvera™ 100/120 Digital Production System as a “targeted device.” Similarly, DigiPath version 4.1 or FreeFlow versions prior to 5.0 will not be changed to support the Nuvera 144 Digital Production system as a “targeted device”.

DigiPath customers with software releases prior to 4.1 may be provided a “best case” print path utilizing an existing supported printer to optimize image quality.

- When scanning with the “Document Scan and Makeready” application, best Image Quality results will be achieved using “Generic Write White” when submitting from DigiPath.
- When scanning with the “Scan and Print” application, best Image Quality results will be achieved using “DT75/90” when submitting from DigiPath.
- When Image Quality is not a primary concern, select the DT6180 printer when submitting a job for the most comprehensive set of Job Ticket Attributes.

Jobs sent from these DigiPath units will have to be held and re-programmed to ensure correct job attributes.

Solutions Validation

The following software applications have been validated for the Xerox Nuvera™ DPS with previous system releases.

Connectivity

- BARR Spool
- LRS VPS/TCP/IP

VI

- Elixir Vitesse (VIPP)
- eXstream Dialogue (VIPP & LCDS/Metacode)
- Lytrod Proform Designer (VIPP)
- Atlas PrintShop Mail (VIPP)
- Banta DesignMerge (VIPP)
- Group1 DOC1 (VIPP & Metacode)
- Printable Technologies Datalogics (VIPP)
- Pageflex Persona (VIPP)
- XMPie PersonalEffect Configuration & Workflow (VIPP)

- Press-sense iWay Product Suite VIPP Emitter Module (VIPP)

LCDS

- Elixir DesignPro Tools (LCDS/Metacode Resources)
- RSA EPS Pro

PDF

- Xerox PDF Color Splitter (Prior users of Colorsplitter who upgrade to 5.0 or above will need a new dot version of Colorsplitter)

MX (MICR) System

- ACOM EZPay Manager

Labels

- Xpert Image Xpert Label

VIPP (Variable Data Intelligent PostScript Printware)

FreeFlow Variable Information (VI) Suite

The FreeFlow VI Software Suite provides a variable data software suite with focus on VIPP (Variable data Intelligent Postscript Printware) - a Xerox technology building on the power of postscript with the goal of a powerful Variable Data solution that can make document creation as simple as just sending the data. Print shop operators and supervisors can also easily print variable data applications in electronic format, as PDF files, with the VI PDF Originator.

Print Speed/System Performance

In general, the Xerox Nuvera™ 100/120/144 is capable of efficiently handling variable data jobs. The total time consumed to print a variable data job will vary as a function of variable coverage and element demographics (size and percentage of variable text vs. images/graphics).

Overall, system performance (click-to-clunk) is dependent upon many factors, including the variable data application and workflow, network environment, image quality settings, and RIP and print rates. Under certain circumstances, use of large, high-resolution images printed page-to-page in variable data applications will degrade RIP performance, in some cases to a degree which may affect system throughput.

Variable Information Software Limitations

Note: The following limitations are specific to variable information, which may not be inclusive of the entire system independent of whether a job includes variable data.

FreeFlow VI Interpreter

Adobe Portable Document Format (PDF)

PDF cannot be used as a direct input resource for the VI Interpreter. Direct printing of PDF files within a VIPP workflow is not supported. PDF files can be converted to PostScript (using an Adobe compliant driver) and the VIPP Resource Converter or other third party PDF to PostScript converter. PostScript is an input resource supported by the VI Interpreter.

The VI PDF Originator component of the VI Suite can output intelligent, interactive PDF files directly from a VIPP data file. For more information on the capabilities of the VI PDF Originator, contact your Xerox representative.

Support for VIPP may also be obtained by contacting the Variable Information and Solutions Services Group (VISSG). Customers may call (888) 550-6336.

FreeFlow Print Manager / IPP

The XDS software has been discontinued. A replacement is FreeFlow Print Manager (FFPM), which is a separate, standalone product available for purchase.

Network Connectivity

The Xerox Nuvera™ 100/120/144 Digital Production System supports industry standard network protocols and Page Description Languages (PDL).

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comments |
|---------------------------------------|--|---|
| Connections | <ul style="list-style-type: none"> • Ethernet Interface (10/100 baseT, 1Gb) • S/370 or S/380 Bus and Tag | <ul style="list-style-type: none"> – Licensed option – Optional connection – Token Ring is not natively supported and requires a bridge box |
| Network Protocols | <ul style="list-style-type: none"> • TCP/IP • LPR • IPP • HTTP • Novell (SPX, IPX) • AppleTalk • SNMP | <ul style="list-style-type: none"> – Protocols available with Ethernet license |
| Scan to Network Save Protocols | <ul style="list-style-type: none"> • SMB • FTP • Secure FTP • NFS | <ul style="list-style-type: none"> – |
| PDL's | <ul style="list-style-type: none"> • Adobe PostScript Level 3 • Adobe PDF • PCL 5e & PCL6 • TIFF • Multi-Page TIFF • PPML • LCDS/Metacode • IPDS • ASCII | <ul style="list-style-type: none"> – PCL is bundled with the Network licenses in order to support ASCII printing |
| Document Submission | <ul style="list-style-type: none"> • Microsoft Windows 95,98,ME, NT4.0, 2000, XP Printer Drivers • Apple Macintosh OS8, OS9, OSX Printer Drivers • Sun Microsystems Solaris 2.6, 7.x, 8.x , 9.0 , 10 • Linux 2.x • Xerox FreeFlow™ Print Manager for direct PDL submission from clients • Xerox Web User Interface | <ul style="list-style-type: none"> – Windows 95, 98, and ME are supported via PPD only. – WHQL (Windows Hardware Quality Lab) certified for the PostScript and PCL 6 drivers. – Drivers are available for download from the Xerox.com web site – Mac OS X Classic Mode supports the drivers and FreeFlow™ Print Manager. – Mac OS X version 10.2.6 and above will support FreeFlow™ Print Manager – Mac OS X version 10.3 and up will support drivers natively in a future software release. – PPD files and FreeFlow™ Print Manager for Solaris and Linux use |

Scanner Module

The optional integrated scanner with document handler utilizes a Xerox patented Dual scan head array.



| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comments |
|--|--|---|
| Automatic Document Feeder (ADF) | <ul style="list-style-type: none"> • 300 sheet capacity (20 lb. bond, 75 gsm) • 5.5" x 8.5" to 11" x 17" sheets (140 x 216 to 279.4 mm x 432m m) • 13 lb. bond to 113 lb. index (49 to 220 gsm) | |
| Scan Speed | <ul style="list-style-type: none"> • 120 images per minute one sided 8.5" x 11"/A4 120 sheets per minute • 120 images per minute two sided 8.5" x 11"/A4 60 sheets per minute | |
| Scan Resolution | <ul style="list-style-type: none"> • 600 x 600 dpi • 8-bit Gray (256 shades) | <ul style="list-style-type: none"> – Copy jobs are saved at 1200 x 600 dpi, 1-bit depth – Copy jobs are not intended for output to other printers |

Maximum Paper Size & Maximum Image Size

The maximum paper size that can be placed on the platen is 12.6" x 18.5" / 320mm x 470mm. The maximum image size, however, is 12.0" x 18.0" / 305mm x 457mm.

Color

This is not a color scanner.

Scan-to-Email

There is no "scan-to-email" feature for this product.

Input Document substrates

Document substrates that are not recommend for use in the SDDF include envelopes, metallic cover stock, transparencies, label stock, silver photographic paper, tab stock, Never Tear (or other manufacturers' equivalent), and those substrates whose intrinsic characteristics limit or prevent the separation of documents with friction-retard feeding mechanisms without causing mis-feeds, multi-feeds, jams or document damage.

Carbonless paper

Carbonless paper passed through the document feeder may be subject to marking in areas where the document feeder's paper handling elements come in contact with the carbonless stock due to the "marking characteristics" of this stock. In extreme cases, this unintended marking could obscure information from the page being reproduced.

Hole punched paper

The SDDF may not reliably feed GBC and similar type documents without damage to the original and without geometric errors (skew or mis-registration). The workaround for GBC, spiral-bound and similarly punched papers is to rotate the documents to feed the unbound edge first, and then rotate the image.

File Size Limitation

Files saved as Multi-page TIFF are limited to 2GB in size. This limit may be reached after a few hundred images if the scanned originals contain many images and are scanned at 1200 x 1200 resolution.

Scan to Digital

The system is capable of scanning to the hard drive, a NFS mounted drive, any network drive or desktop, or the CD-RW drive. The following resolutions are supported.

| Exported Resolution | Halftone Screen Frequency (Photo Mode) | Purpose |
|---------------------|--|---|
| 1200 x 1200 x 1 | 125 lpi @ 53°, 106 lpi @ 45°, 85 lpi @ 45° | Xerox Nuvera™ 100/120/144 remote printing |
| 1200 x 600 x 1 | 125 lpi @ 53°, 106 lpi @ 45°, 85 lpi @ 45° | Saving Copy jobs |
| 600 x 600 x 1 | 125 lpi @ 53°, 106 lpi @ 45°, 85 lpi @ 45° | DocuTech® 61XX printing |
| 400 x 400 x 1 | 125 lpi @ 53°, 106 lpi @ 45°, 85 lpi @ 45° | Good for some Fax applications |
| 300 x 300 x1 | 125 lpi @ 53°, 106 lpi @ 45°, 85 lpi @ 45° | Minimal file size |

Digital Front End (DFE) - FreeFlow™ DocuSP®

FreeFlow™ DocuSP® Workflow

The workflow is developed around the Xerox FreeFlow™ Document Services Platform (FreeFlow™ DocuSP®) technology, a very stable technology that has been developed over the years and installed in thousands of Xerox devices worldwide. This will allow training simplicity for current FreeFlow™ DocuSP® operators.



The FreeFlow™ DocuSP® controls all aspects of the system – scanning, “ripping,” and printing. It is an intuitive, easy-to-use digital front-end driven by the graphical user interface (GUI).

Control electronics are located in an integrated tower on the unit, not in a separate server – saving valuable floor space. They are easily accessible if service is required and have been architected to be replaced and upgraded if newer technology would improve system performance.

Xerox Nuvera™ System Release 7.0 incorporates DocuSP® release 5.1 SP1.

Key features of FreeFlow™ DocuSP® include:

- **Scan/Copy:** scan ahead and program ahead capability; save and job edit capability.
- **Printer Management:** Ability to manage paper supply and printer attributes.
- **Raster** image processing (RIP) services: Supports multiple datastreams; PostScript, PDF, ASCII, PCL, TIFF, PPML, LCDS and IPDS
- **Graphical User Interface:** Provides the user interface to manage various print shop operations; such as setting up and monitoring: queues, jobs management, administering security and accounting features, controlling the production process like the ability to manage paper supply and printer attributes.
- **Disk Overwrite:** This feature is intended for the high security environments that not only want files deleted after use, they want them erased, permanently. This implementation uses algorithms recommended by the Department of Defense (DOD) to ensure complete erasure of all information. The Disk Overwrite feature is based on the current FreeFlow™ DocuSP® data overwrite feature. In addition to data overwrite on FreeFlow™ DocuSP® disk partitioning, the function is also applied to all the other disks in the product including the image disk for copy, and print transient images.
- **DocuTech® Emulation Mode:** This feature will simulate the image quality of the Xerox DocuTech® 61XX product and is useful when a reproduction facility splits a job among more than one output device and requires the appearance of the output from multiple printers to look similar. This feature is also used when reprinting previously saved DocuTech® 61XX family jobs on the Xerox Nuvera™ 100/120 Digital Copier/Printer.
- **Security:**
 - Transport Layer Security (TLS)/Secure Socket Layer (SSL):** When submitting a job from a Web UI, FreeFlow™ Print Manager or the IPP client, invoking this feature will prevent unauthorized interception of the job by encrypting the data sent over the network.
 - BAA Authentication:** When enabled, this feature requires users to provide a valid username and password before being able to access the Web UI interface.
 - IP Filtering:** This feature controls the built-in-firewall, allowing the system administrator to restrict network access to the system based on the originating IP address. The restriction applies to the following print submission protocols: LPR, IPP, HTTP, HTTPS, SMB Printing, Raw TCP Printing, FTP.
 - Microsoft ADS Authentication:** When enabled, a user will be able to authenticate by means of locally managed user accounts as well as possess the ability to log on locally using an account defined in a Microsoft ADS domain.

CD-RW/DVD Drive

CD-RW/DVD w/quartz white bezel: 32x Record CD-R, 10x Rewrite CD-RW

CD-RW/DVD w/black bezel: 52x Record CD-R, 24x Rewrite CD-RW

DVD drive will read DVD-ROM, DVD-R, DVD-RW, DVD-RAM

Resource Loading.

There is no floppy drive on Nuvera; resource loading via LTO Tape or QIC tape is recommended.

There are other alternatives, for example, by ftp to the controller, import from Unix file system, or from an NFS mounted directory.

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comments |
|--|--|--|
| Digital Front End (DFE) and Raster Image Processor (RIP) computing platform | Xerox Document Services Platform (FreeFlow™ DocuSP®) 5.1 (System Release 7.0) for Xerox Nuvera™ 100/120/144 with Release 7.0. <ul style="list-style-type: none"> • Solaris 10 OS, update 1 • 2.2 GHz, 1GB of RAM, 160GB SATA Hard Drive, CD-RW/DVD drive, 15" LCDS display, USB Keyboard, USB Mouse Second optional hard drive – 400 GB SATA | Approximately 10 GB of hard drive space available for customer jobs. There is no provision for a second processor. |
| RIP Resolution | <ul style="list-style-type: none"> • 600 x 600 dpi • 1200 x 600 dpi • 1200 x 1200 dpi | <ul style="list-style-type: none"> – The processor can RIP (Raster Image Process pages for printing) at 600 x 600 dpi, 1200 x 600 dpi, or 1200 x 1200 dpi. – Images “ripped” at 600 dpi may provide faster performance when processing, and will save files that are smaller in size, however, there may be some impact to image quality, |
| Halftone Screens | <ul style="list-style-type: none"> • 85 lpi @ 45°, 256 levels of gray • 106 lpi @ 45°, 256 levels of gray • 125 lpi @ 53°, 256 levels of gray • 134 lpi @ 63°, 256 levels of gray • 156 lpi @ 40°, 256 levels of gray | <ul style="list-style-type: none"> – Optimized for the Xerox Nuvera™ 100/120/144 Digital Production System – Levels of gray @ 1200 x 1200 dpi |
| Image Quality Controls - Scanning | <ul style="list-style-type: none"> • Document Type • Lighter/Darker • Contrast • Sharpness • Background Suppression • Pictorial Rendering | <ul style="list-style-type: none"> – Mixed Text & Graphics; Text; Mixed Text & Halftones; Photo – Eleven positions – Seven positions – Seven positions – On or Off – Halftone selection Rendering textures are error diffusion with the exception of photo mode which is 125 lpi halftone (189 levels of grey) |
| Image Quality Controls - Printing | <ul style="list-style-type: none"> • RIP Resolution • Lighter/Darker • Toner Saver | <ul style="list-style-type: none"> – 600 x 600, 1200 x 600, 1200 x 1200 dpi – Seven positions – For less demanding image quality applications; decreases toner consumption by about 50% |

Copy Jobs

- Copy jobs can be saved; they consist of two files - a multi-page TIFF and an XPIF ticket.

Print From Digital File

| Configuration | Re-print Job Formats (from DVD/CD) | Comments |
|---------------------------|---|--|
| Digital Production System | <ul style="list-style-type: none"> • Single TIFF • Multi-page TIFF • PPML • PCL • PostScript • PDF • Saved Single Page TIFF • ASCII | <ul style="list-style-type: none"> – Saved Single Page TIFF file is the Save operation performed in FreeFlow™ DocuSP® when selected to save as single TIFF. This file contains PostScript that will require PostScript to print the file. |

Scan to Digital File

| Configuration | Save Job Formats | Comments |
|---------------------------|--|----------|
| Digital Production System | <ul style="list-style-type: none"> • Multi-Page TIFF • PDF • Single Page TIFF | |

Saving jobs

Jobs submitted electronically, either over the network or via media, can be saved.

- Both the “ripped” (Raster Image Processed) image and the job ticket will be saved.
- Ethernet license must be enabled in order to save job as PDF.
- Set up Instructions for Scan To File with NFS (Network File System) can be found in the Xerox Nuvera™ Digital Production Systems Hints & Tips.

Productivity Impacts

There are several factors that can affect the performance of the system RIP speed when processing print jobs. The following is a list of common situations that negatively can impact throughput.

- The default print resolution of the system is 1200 dpi. 600 dpi printing may be adequate for your needs, so you can try setting that resolution to improve RIP performance of complex 1200 dpi jobs. 1200 dpi results in 4 times the internal image data of a comparable 600 dpi image that has to be transferred through the system. When the print resolution is changed from 1200 to 600 dpi, the stroke thickening value may also need to be changed from 1 to 0 to avoid excessive line thickening.
- It is common to embed logos and watermarks in submitted print files. These are typically bitmap images that when embedded in a print stream (such as PostScript) can take a long time to process. Note also that resolution selections (e.g. 600 dpi vs. 1200 dpi) can have a significant further impact to processing of these types of embedded images. Consider the design of documents and impacts to printing speed in such cases. There are methods available, through PostScript for example, to cache these embedded images, process them once, and retain them as a resource for application on each page without having to render and scale them for each page. Refer to your PostScript reference manuals and DocuSP reference manuals for information about caching.
- Submission of multiple TIFF images simultaneously is a common application. There are several batch printing tools available on the market that enable this and most require the selection of a print driver for the target printer that these images files are submitted through. In these cases, the TIFF files are converted to a Printer Description Language (PDL, such as PostScript) by the batch tool by using the printer driver and then submitted to the printer, which in turn RIP that PDL and re-render the TIFF bitmap images back into bitmaps. This is an inefficient process and can significantly slow the machine down. Xerox Nuvera includes a native TIFF interpreter and it can process TIFF files sent to it directly. Some of the batch tools on the market support a native TIFF submission capability. It may be referred to as a bypass mode or

something similar. If such a capability is available, the Xerox Nuvera's performance can be significantly improved by taking advantage of that. (Note that the TIFF interpreter does not automatically determine the embedded image size and apply it to an appropriate paper size. You can accomplish though by using printer and queue defaults programming)

LCDS and IPDS

LCDS Print Description Language

The Xerox LCDS Print Description Language (PDL) is a set of commands that you give to the printing system to define properties such as the appearance, output destination, and paper feed source for your LCDS print job. You can use LCDS PDL to do all of the following in your print jobs:

- Change and mix font types on a page-to-page, line to line, or character-to-character basis. This allows you to customize printed output for specific needs; for example, emphasizing important headings by changing font styles and sizes.
- Change text orientation and positioning on a page-to-page basis. This allows you to print characters along the width or length of the page with equal ease. The printing system can switch instantly, at a page boundary, between portrait (tall and narrow) and landscape (wide) page formats, combining the two styles within a single report.
- Print a number of previously separate logical pages on the same physical page of a document.
- Modify documents on a page to page basis by using copy modification entries (CME's) to replace selected portions of text with other data, change fonts, or label copies, e.g. as "confidential."
- Merge variable print data with forms stored on the system disk. This feature eliminates the need for forms overlays and most preprinted forms, as well as assuring perfect registration.
- Print two different forms back to back (duplex) on one sheet of paper, thereby reducing paper costs. Additionally, this option offers potential savings in inventory, filing, storage, and mailing costs for computer generated material.
- Feed paper either short edge first or long edge first to accommodate a variety of paper sizes.

The following are known key limitations specific to LCDS on Nuvera DPS systems. A more complete set is provided in the Nuvera Hints and Tips document.

- Print on Edge (versus print to edge) is not supported.
- There is no floppy drive on Nuvera; resource loading via LTO Tape or **QIC** tape is recommended. Alternatively, resources can be sent over the network by ftp to the controller (or a UNIX file system) and imported from the file system to DocuSP. Importing from a NFS mounted directory can also be performed if the resources are already relocated to that directory.
- The TMODE command is ignored as the system always performs at optimum throughput.

Please refer to the following documentation for additional information

- Using LCDS Page Description Language – Generic **701P42242**
- LPS Migration Guide. Request copy of Migration Guides from your Xerox Systems Analyst.

IPDS Print Description Language

The DocuSP IPDS gateway supports the Intelligent Printer Data Stream as defined by IBM. The IPDS DataStream performs printer control functions as well as sharing job status information back to the host. It is configured by means of a GUI, featuring drop-down menus, tabs, and icons from which to manage the DocuSP IPDS functions. DocuSP IPDS supports the TCP/IP and online channel interfaces.

The following are known key caveats specific to IPDS on Nuvera DPS systems. A full set of caveats and limitations are provided in the Nuvera Hints and Tips document.

- DocuSP IPDS currently supports the following environments only:
 - ♦ MVS with PSF
 - ♦ OS/400 with PSF/400 (TCP/IP connectivity only)
 - ♦ AIX with InfoPrint Manager
 - ♦ InfoPrint Manager / Windows
 - ♦ Emtex VIP

Even in these opened environments, application validation is a requirement prior to installation. Other host types and 3rd party solutions are under evaluation and will be become available as validations are completed.

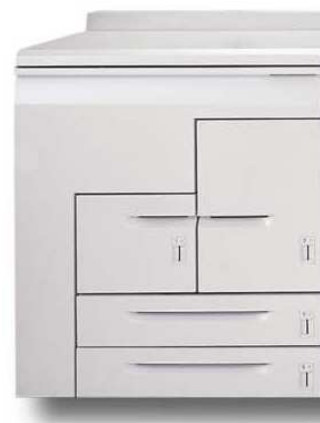
- Sample current job is not supported for IPDS jobs. The IPDS host presumes full control over the job's output, and this feature would cause incorrect page counts to be reported to the host. The DocuSP GUI currently only supports this capability at the Printer Manager level, and is not able to set this capability for individual jobs or queues. Therefore, the DocuSP GUI does not prevent selecting Sample Current Job. However, the request will not be honored for an IPDS job, and no warning message will be provided.
- DocuPrint IPS 7.x Input Groups and 8.x Virtual Printer Media Lists cannot be imported into DocuSP IPDS. DocuSP IPDS Job Setups must be recreated.
- The IPS Manager is not automatically informed when physical tray contents are changed at the DocuSP printer manager. Instead, you must use the Refresh mechanism provided by the IPDS Tray/Bin Mappings dialog to display the latest mapping information.
- DocuSP Remote Workflow (DRW) does not support the IPS Manager.
- IPDS jobs cannot be deleted or canceled from the DocuSP Job Manager GUI. Instead, it is necessary to cancel the current IPDS job using the "Cancel Incoming Job" button on the IPS Manager GUI. Note that this action is made easier now with the 'Restart IPDS Processing' option (a DocuSP restart is no longer required).
- Please refer to the IPDS User Guide (701P44135, July 2005) for additional information on the support of IPDS.

Sheet Feed Modules

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | |
|---|---|--|
| | Sheet Feed Module (SFM) 4 Tray | Large Format Sheet Feed Module (LFSFM) 2 Tray |
| Capacity 20 lb bond (75 gsm) | <ul style="list-style-type: none"> • Paper Input Capacity: 5800 sheets --Tray 1: 1,600 sheets --Tray 2: 3,100 sheets --Trays 3 & 4: 550 sheets each | <ul style="list-style-type: none"> • Paper Input Capacity: 3200 sheets --Trays 1 & 2: 1,600 sheets |
| Capacity 80gsm, 0.105 mm | <ul style="list-style-type: none"> • Paper Input Capacity: 5565 sheets --Tray 1: 1505 sheets --Tray 2: 3020 sheets --Trays 3 & 4: 520 sheets each | <ul style="list-style-type: none"> • Paper Input Capacity: 3030 sheets --Trays 1 & 2: 1505 sheets |
| Minimum Size | <ul style="list-style-type: none"> • Trays 1 & 2 --Feed Direction: 5.5 inches (140 mm) --Across Feed Direction: 8.0 inches (203 mm) • Trays 3 & 4 --Feed Direction: 7.17 inches (182 mm) --Across Feed Direction: 8.0 inches (203 mm) | <ul style="list-style-type: none"> • Trays 1 & 2 --Feed Direction: 7.17 inches (182 mm) --Across Feed Direction: 8.0 inches (203 mm) |
| Maximum Size | <ul style="list-style-type: none"> • Trays 1 & 2 --Feed Direction: 9.0 inches (229 mm) --Across Feed Direction: 12.6 inches (320 mm) • Trays 3 & 4 --Feed Direction: 18.5 inches (470 mm) --Across Feed Direction: 12.6 inches (320 mm) | <ul style="list-style-type: none"> • Trays 1 & 2 --Feed Direction: 18.5 inches (470 mm) --Across Feed Direction: 12.6 inches (320 mm) |
| Media Types | <ul style="list-style-type: none"> • Bond, Bristol, cover, index, offset, recycled, vellum, tabs and Mylar tabs, transparencies, carbonless, labels, Never-Tear, pre-printed forms • Booklet envelopes: 9" x 12", 228mm x 305 mm , Catalog envelopes: 7" x 10", 178mm x 254mm | |
| Input Weight | <ul style="list-style-type: none"> • Uncoated: 16 lb bond to 90 lb cover (56 gsm to 250 gsm) • Coated: 90gsm to 250gsm | |
| Feeding System | <ul style="list-style-type: none"> • Air shuttle | <ul style="list-style-type: none"> • Air shuttle |

COMMENTS

- Auto tray switching & Load while run capability are supported. Do not open trays when the "Drawer in Use" light is lit.
- Statement tabs and A5 tabs are not supported.
- Paper handling reliability of coated papers is reduced below 120 gsm.
- Trays do not feed to empty. When a feeder empty message is displayed, there could be as much as 80 sheets of stock remaining in the feeder tray (based on 20lb. bond / 75 gsm). This is to maintain the best possible reliability in the feeder mechanisms.
- The use of Xerox media as listed in this document is recommended. Because there is a difference in technology between offset and digital printing, there is a difference in media properties required for optimum performance with each technology. Xerox papers and specialty media are digitally optimized (paper specs - smoothness, formation, electrical properties, etc., for optimal image quality, toner adhesion and performance, and also precision sheeted - less contamination, better registration for use in Xerox digital equipment.
- Two feed modules in tandem may be installed on the input side of the printer.



4-Tray SFM

SPECIAL STOCKS

Carbonless

Xerox Carbonless Papers as listed in this document are the only recommended carbonless media. Only simplex printing is supported on this stock type. Running carbonless paper may require additional cleaning time by the CSE during service of the machine. This time will vary based on the percentage of carbonless stock run. In the 100% carbonless usage case, service time could be up to 60 additional minutes per service call at 150,000 prints

DocuCards®

DocuCards® can only be loaded 100 at a time in a tray. Nuvera feeder trays feed until almost empty but not until empty, leaving 20~40 sheets remaining. When running DocuCards®, frequent reloading of the feeder trays will be required.

DocuCards® can only be run to the Top Tray of the finisher. Some mis-stacking may occur as the DocuCards® catch on the edges of the stacked sheets®.

When using DocuCards, it is recommended that you use a Tiltatron (available from CAS).

DocuCards are not supported on the Nuvera MX system.

Reinforced stocks

Reinforced stocks such as Mylar tabs should be limited to 90 loaded in a tray at one time.

Transparencies

The tray capacity for removable stripe transparencies is 90 sheets. There is no constraint for feeding painted striped transparencies or stripeless transparencies.

Tab Jobs

Running tabs requires proper use of the supplied Tab Guides.

Jobs should be run with straight collated tabs.

Tab stock sizes supported are: Letter, 9" x 11," 9.5" x 11", A4

Envelopes

Envelopes should be limited to 60 loaded in a tray at one time. Nuvera feeder trays feed until almost empty but not until empty, leaving 20~40 sheets remaining. When running envelopes frequent reloading of the feeder trays will be required.

Very slight wrinkles (1/2 inch long) may occur on the trail edge of envelopes at the corners.

Due to the nature of feeding envelopes with flap open, some mis-stacking may occur in the top tray as the envelopes catch on the open flaps

Envelopes should be sent to the Top Tray only.



2-Tray LFSFM

Insertor Module (IM)

The specifications for the Insertor Module are the same as for the SFMs. Either the 4-tray SFM or the 2-tray Large Format SFM can be used as an insertor. One insertor may be installed on the output side of the printer.

COMMENTS

- LCDS and IPDS applications are currently not able to pull paper stocks from the Insertion Module.

Printer Module

Xerographic monochrome (black and white) print engine. The printer utilizes a Discharged Area Development (DAD) system, often referred to as “write black.”

| Engine speed per paper size – impressions per minute* | | | | |
|--|---|-----------------------|-----------------------|-----------------------|
| Paper dimensions along process direction | Example sizes | Xerox Nuvera™ 144 DPS | Xerox Nuvera™ 120 DPS | Xerox Nuvera™ 100 DPS |
| 5.5" ≤ Paper Size ≤ 8.5" (140mm ≤ Paper Size ≤ 216 mm) | Letter 8.5"x11", A4, Statement 5.5"x8.5", A5, 6"x9", 7"x10", 8"x10" | 144 IPM | 120 IPM | 100 IPM |
| 8.5" < Paper Size ≤ 9.0" (216 mm < Paper Size ≤ 229 mm) | 9"x11" Covers, 9"x12", Letter sized Tabs, A4 Tabs | 120 IPM | 120 IPM | 100 IPM |
| 9.0" < Paper Size ≤ 11.7" (229mm < Paper Size ≤ 297 mm) | Letter SEF, A4 SEF, 9.25"x12.5", 9.5"x12.5" | 96 IPM | 96 IPM | 80 IPM |
| 11.7" < Paper Size ≤ 17.0" (297mm < Paper Size ≤ 432 mm) | 8.5"x14", Ledger 11"x17", A3 | 72 IPM | 72 IPM | 60 IPM |
| 17.0" < Paper Size ≤ 18.5" (432 mm < Paper Size ≤ 470 mm) | 12.5"x18.5" | 48 IPM | 48 IPM | 40 IPM |

* - The impressions per minute figures are for the Printer Module; system throughput could be further constrained by the capabilities of the attached Finishing Module(s); please refer to the documentation for the individual Finishing Module(s).

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comments |
|--------------------|--|--|
| Image Format | Maximum image area - 12.6" x 18.5" (320mm x 470mm) | <ul style="list-style-type: none"> All sheets will have a default 3 mm (0.12 in.) border without printing, regardless of sheet size. Default border can be set to 0 mm, or Lead Edge Erase only by the SA; however some image quality degradation may occur up to 6mm from the edge. |
| Media size | Process Direction: 5.5 – 18.5" (140 – 470 mm) Cross Process: 8.0 – 12.6" (203 – 320 mm) | |
| Media Weight | Uncoated: 16 lb. bond – 90 lb. cover (56 – 250 gsm) Coated: 60 lb text – 90 lb cover (90 – 250 gsm) | |
| Printer Resolution | 4800 x 600 dpi | No matter what resolution images are “ripped” at, the printer uses hardware image processing to print them at 4800 x 600 dpi. |
| Fuser | 374° F (190° C) – while printing | Users may select enhanced permanence for |

| | | |
|---------------------|---|--|
| Temperature | | heavyweight paper by means of the User Interface. |
| Developer | 99 microns in diameter Carrier: 90 microns; Toner: 9 microns | Trickle development system |
| Registration | Translating Electronic Registration | Benchmark registration system holds image to sheet alignment at +/- .65mm per side AND front-to-back on Letter/A4 size papers; +/- .75mm per side AND front-to-back on Tabloid/A3 size papers. |

Image Quality Expectations

| Image Quality Parameter | Xerox Nuvera™ 100/120/144 Digital Production System | Comment |
|--------------------------------|---|---|
| Image Uniformity | The Xerox Nuvera™ 100/120/144 Digital Production System is designed to render tints with a high degree of uniformity, and produce vignettes, sweeps and gradients that are smooth and even. Sophisticated design prevents unwanted process speed variations that plague lesser digital printing systems with banding problems. Halftoning algorithms and customized halftone dot designs take full advantage of the printer's high addressability imaging system to render incredibly sharp, detailed images. | The most discriminating judges of print quality may occasionally perceive a degree of mottle in large uniform flat tints. Extremely high humidity, low document area coverage or papers with poor formation can exacerbate mottle. If excellent uniformity is required, controlling environmental factors or an accelerated maintenance rate can usually satisfy demanding customers. |
| Text Quality | Black text quality is excellent for sizes as small as 4 point. | |
| Line Quality | The Xerox Nuvera™ 100/120/144 Digital Production System can print solid lines all the way down to 70 microns. | |
| Area Coverage | The Xerox Nuvera™ 100/120/144 Digital Production System uses nested automated controls of dry ink, development, tone reproduction, and the internal environment to assure consistent printing. These closed loop process controls continuously test against the targets and adjust as required. | The control system is designed to run within a specific range of quality. Although some variation may be noticeable in specific cases, the closed loop controls will typically deliver very acceptable quality, consistently, predictably, and without operator intervention. |
| Mylar tabs | Images printed on Mylar tabs typically show degradation due to toner scatter. | |
| Other artifacts | As with any printing process, artifacts will occur on the Xerox Nuvera™ 100/120/144 Digital Production System. These include streaks, mottle, banding, spots and edge deletions. For most jobs and clients, the expected level of artifacts is within the normal operational and component quality ranges of the system and will not affect the acceptability of the job. | Maintenance procedures are available to mitigate these artifacts. Artifact-sensitive jobs should be monitored. Using stocks on the Recommended Media List and maintaining your environment will also help to minimize the occurrence of these artifacts. |

Printer Module Capabilities

- **Print to Edge**
This is not a print to edge system due to potential image quality defects on the edge of the page. The system default is set to 3 mm border erase. The border erase can be set to 0 mm, but the printer is subject to image quality limitations - which may be acceptable for some applications. Some non-standard and custom paper sizes may have a larger border region where image quality cannot be optimized.
- **SRA3 Printing**
Printing on SRA3 can result in inboard and outboard edge image quality defects. The defects can range from slight mottle to high contrast deletions depending on the type and condition of the substrate being printed on. The reason for this is that the Transfer Assist Blade does not completely extend to the edges of SRA3 substrates. The blade does not make contact with the last 14mm at both the inboard and outboard edges of SRA3 substrates.
- **Area Coverage**
The system is capable of continuous printing of pages up to 33% area coverage. When documents that exceed 33% area coverage per page are continuously printed, the customer may notice that the system does not print at the rated speed.
- **Xerographic Color Prints**
Xerographic color originals cannot be run through the fuser.

Basic Finishing Module (BFM) and BFM Plus

| Dimensions | Basic Finishing Module (BFM) |
|------------------------|--|
| Width X Depth X Height | 32.9" X 28" X 44.5" (835.7mm X 711.2mm X 1130.3mm) |
| Weight | 369 lbs. (167.4 kg) |
| Clearance: Operator | Minimum 38" in front of module |
| Clearance: Service | Minimum 30" from back wall |
| Dimensions | Basic Finishing Module Plus (BFM Plus) |
| Width X Depth X Height | 48" X 28" X 44.5" (1220mm X 711.2mm X 1130.3mm) |
| Weight | 494 lbs. (167.4 kg) |
| Clearance: Operator | Minimum 38" in front of module |
| Clearance: Service | Minimum 30" from back wall |



BFM



BFM Plus

| Electrical & Environmental | BFM / BFM Plus | |
|----------------------------|---------------------------------------|--------------------|
| | Minimum | Maximum |
| Temperature Range | 50° F (10° C) | 90° F (32.2° C) |
| Humidity Range | 15% RH | 85% RH |
| Altitude | 0 ft | 10,000 ft. (3048m) |
| Power | 200 - 240 VAC ± 10%, 50/ 60 Hz, 8Amps | |

| Media Latitude | BFM / BFM Plus |
|--------------------|--|
| Stock Weight Range | Uncoated: 16lb. bond to 120lb. index (56 to 250 gsm) Coated: (90 to 250gsm) |
| Stock Size Range | 7" x 8" to 12" x 18.5" (178 x 203mm to 320mm x 470mm) – See table on following pages |
| Top Tray Capacity | 250 (20 lb. bond / 75 gsm) |
| Main Stacker | 3000 (20 lb. bond / 75 gsm) |
| Stapler | One or two staples, up to 100 sheets (20 lb. bond / 75 gsm) |

System Compatibility

There are two models: the BFM has a top tray (also know as purge tray); the BFM Plus includes a bypass transport over the stacker

Both the BFM and the BFM Plus may be installed to enable continuous running with unload-while-run.

If one of these modules is the only installed finisher, it must be BFM (with the top tray).

A single BFM Plus may be installed if connected to a downstream FTM to add supported inline DFA finishing

BFM / BFM Plus Operation

Continuous operation with unload while run is fully supported with a BFM and BFM Plus installation. When a stacker is full or not ready (e.g. out of staples) the system can auto switch to another available stacker.

Unloads can be configured to occur automatically at stacker limit, at job boundaries, at set or partition boundaries, or can be initiated manually via the Stacker Unload button or the GUI. A stacker's limit can be configured to any value between 200 and 3000 and each BFM stacker can be configured independently and differently. If desired, operators can also program jobs to specific stacker destinations.

Bypass via BFM Plus

Bypass to a downstream finishing device is a capability of the BFM Plus

Output

- Paper sizes supported to the main tray (stapled and unstapled):
 - Process direction - 7.0 to 18.5 in. (178 mm to 470 mm)
 - Cross Process direction - 8.0 to 12 in. (203 mm to 305 mm)
- Smaller sizes (down to A5 and Statement) or larger sizes (including SRA3) can be run to the top tray.
- Mixed sized output allows stacking of different size pages, both in the process and cross-process direction, in a single job.
- When stapling sets with mixed size stock, the stock must be the same dimension in the Across Feed direction, and the dimension differences should be within 13mm (½") in the feed direction.
- To have the BFM staple correctly, the output must be 1-N facedown.
- Envelopes can only be sent open flap trailing to the Top Tray, and should be limited to 15, or mis-stacking may occur.
- The BFM / BFM Plus does not offset paper sizes larger than 11"x17" / A3. This means that 12"x18", 12x18.5", SRA3 cannot be offset. For these sizes, the software ignores any offset programming selection, and runs without offsetting.
- Banner and slip sheets should be greater than or equal to 90 gsm (24 lb bond)
- Slip-sheets must be the same size as the body sheets
- Stapler capacity is reduced for coated papers and paper heavier than 20 lb. bond (75 gsm).
- For reliable stacking, stack size should be limited for certain jobs:
 - Offset single sheet jobs should be limited to 100 sheets. (20 lb bond or 75 gsm)
 - Stapled sets of 15 sheets or smaller are limited by machine control to 100 sets.
 - Stapled sets of coated stocks stack less well, and should be managed to 50 by the operator.
 - Stapled sets should be offset stacked.
 - The stack height limitation can be operator adjusted.
- Automatic bin limits control the number of sheets collected and compiled in the finisher when running unfinished sets to optimize the set drop performance and improve job recovery.

Tabs

The tabs cross process length must be the same as the body of the document. The tab can be no longer than 0.5" (13mm) in the process direction beyond the body of the document. Tabs sized for use with 8.5" x 11" and A4 stock, long edge feed, are supported

Transparencies

Transparencies run to the stacker must have a slip-sheet between each one.

Stapling

- The BFM is delivered with a 5000 staple cartridge of 100-sheet staples installed in each of the two staplers.
- Staples for up to 30 sheets and for up to 100 sheets are available. Stapled jobs over 100 sheets are inhibited. The machine does not detect staple size. The operator must manage jobs to be within capability of the loaded staple size.
- Some marking of the staple onto an adjacent set may be seen.
- Not all stapler failure modes are detected by the machine logic. The customer may find some occurrence of unstapled sets in the output.

Decurler

- The machine may produce curl that will require intervention with the decurler and the paper supply. Paper handling within the BFM is best if the paper curl is adjusted to be flat or toward the image direction. See the User Guide: Problem Solving - Paper Curl, Adjust the Decurler (located on Xerox.com).

Carbonless

- In the DPS BFM configuration, curl that faces up poses more of a problem than curl that faces down. To avoid up curl, 2, 3 and 4 part Carbonless should be run to the BFM in an N to1 mode and use reverse collated versions of the recommended Xerox media. See compatible media tables in this document.

Media Size Tables

| Table 1: BFM System Main and Top Tray Paper Size Range | | | | | | | |
|---|--------------|-------------------|-----------------|--------------------|------------|--------------------|-------------|
| BFM / BFM Plus System Standard Paper Sizes | | | | | | | |
| Paper Size | | | | Orientation | | Output Tray | |
| Name | Pitch | Inch (WxL) | mm (WxL) | LEF | SEF | Top | Main |
| Env., 6x9, LE fc | 120 | 6x9 | (152x229) | x | | | |
| Env., 6x9, OB fo | 120 | 6x10.75 | (152x273) | x | | | |
| Env., C5, LE fc | 120 | (6.4x9.0) | 162x229 | x | | | |
| Env., C5, OB fo | 120 | (6.4x10.3) | 162x262 | x | | | |
| Env., 7x10, OB fo | 120 | 7x12 | (178x305) | x | | | |
| Env., TBD?, OB fo | 120 | (7.0x11.3) | 178x287 | x | | | |
| Env., 220x312, LE fc | 120 | (8.7x12.3) | 220x312 | x | | | |
| Envelope, 9x12, LE fc | 120 | 9x12 | (229x305) | x | | | |
| A5 | 120 | (5.8x8.3) | 148x210 | x | | | |
| Statement | 120 | 8.5x5.5 | (216x140) | x | | | |
| A5 Tab | 120 | (6.3x8.3) | 161x210 | x | | | |
| Statement Tab | 120 | 6.0x8.5 | (152x216) | x | | | |
| 7x10 | 120 | 7x10 | (178x254) | x | | | |
| B5 JIS | 120 | (7.2x10.1) | 182x257 | x | | | |
| Executive | 120 | 7.25x10.5 | (184x267) | x | | | |
| 16K (Taiwan) | 120 | (7.6x10.5) | 194x267 | x | | | |
| 8x10 | 120 | 8x10 | (203x254) | x | | | |
| 8x10 | 96 | 8x10 | (203x254) | | x | | |
| Letter | 120 | 8.5x11 | (216x279) | x | | | |
| Letter | 96 | 8.5x11 | (216x279) | | x | | |
| Ltr Cover | 120 | 9x11 | (229x279) | x | | | |
| Ltr Cover | 96 | 9x11 | (229x279) | | x | | |
| Ltr Tab | 120 | 9x11 | (229x279) | X | | | |
| 210x270 | 120 | (8.27x10.63) | 210x270 | x | | | |
| 210x270 | 96 | (8.27x10.63) | 210x270 | | x | | |
| A4 | 120 | (8.27x11.69) | 210x297 | x | | | |
| A4 | 96 | (8.27x11.69) | 210x297 | | x | | |
| 210x330 | 72 | (8.27x13) | 210x330 | | x | | |
| 215x275 | 120 | (8.46x10.83) | 215x275 | x | | | |
| 215x275 | 96 | (8.46x10.83) | 215x275 | | x | | |
| 215x356 | 72 | (8.46x14.02) | 215x356 | | x | | |
| 216x273 | 120 | (8.5x10.7) | 216x273 | x | | | |
| 216x273 | 96 | (8.5x10.7) | 216x273 | | X | | |
| A4 Cover | 120 | (8.78x11.69) | 223x297 | X | | | |
| A4 Cover | 96 | (8.78x11.69) | 223x297 | | x | | |
| A4 Tab | 120 | (8.78x11.69) | 223x297 | X | | | |
| Spanish (XE) | 120 | (8.46x12.4) | 215x315 | X | | | |
| Spanish (XE) | 72 | (8.46x12.4) | 215x315 | | x | | |
| 8x13 | 72 | 8x13 | (203x330) | | x | | |
| 215x330 | 72 | (8.46x13) | 215x330 | | X | | |
| Foolscap (XE) | 72 | 8.5x13 | (215x330) | | X | | |
| 220x330 | 72 | (8.66x13) | 220x330 | | X | | |
| Legal | 72 | 8.5x14 | (216x356) | | x | | |
| 226x310 | 120 | (8.89x12.2) | 226x310 | x | | | |
| 226x310 | 72 | (8.89x12.2) | 226x310 | | x | | |
| 9x14 | 72 | 9x14 | (229x356) | | x | | |

| Table 1: BFM System Main and Top Tray Paper Size Range | | | | | | | |
|---|--------------|-------------------|-----------------|--------------------|------------|--------------------|-------------|
| BFM / BFM Plus System Standard Paper Sizes | | | | | | | |
| Paper Size | | | | Orientation | | Output Tray | |
| Name | Pitch | Inch (WxL) | mm (WxL) | LEF | SEF | Top | Main |
| SB4 | 72 | (9.9x14.1) | 252x358 | | x | | |
| B4 (JIS) | 72 | (10.12x14.33) | 257x364 | | x | | |
| 8K (Taiwan) | 72 | (10.51x15.2) | 267x388 | | x | | |
| A3 | 72 | (11.69x16.54) | 297x420 | | x | | |
| Ledger | 72 | 11x17 | (279x432) | | x | | |
| 12x18 | 48 | 12x18 | (305x457) | | x | | |
| 12x18.5 | 48 | 12x18.5 | (305x470) | | x | | |
| 310x432 | 72 | (12.2x17) | 310x432 | | x | | |
| Transparency | 120 | 8.5x11 (A4) | 216x279 | x | | | |
| SRA3 4up A5 | 48 | 12.6x17.7 | 320x450 | | x | | |
| 4up 6"x9" | 48 | 12.5x18.5 | 317.5x470 | | x | | |
| 2up 6"x9" | 96 | 12.5x9.5 | (317.5x241.3) | x | | | |
| SRA4 2up A5 | 120 | (12.6x8.9) | 320x225 | x | | | |

Media less than 6.85 inches (174 mm) in the process direction are not supported in the BFM stacker.

System Productivity: Xerox Nuvera™ 120 / 144 DPS with Basic Finishing Module

Productivity will be slightly less for jobs with only 1 or 2 sheets per set.

Output to Top Tray

Simplex to simplex; duplex to duplex

| Paper Size | Single-sided sheets printed per minute | | | Double-sided sheets printed per minute | | |
|-------------------|---|-------------|------------|---|-------------|------------|
| | 30 page job | 10 page job | 3 page job | 30 page job | 10 page job | 3 page job |
| 8.5" x 11" | 120 / 144 | 120 / 144 | 120 / 144 | 60 / 72 | 60 / 72 | 60 / 72 |
| 8.5" X 14" ** | 72 | 72 | 72 | 36 | 36 | 36 |
| 11" X 17" | 72 | 72 | 72 | 36 | 36 | 36 |

** 8.5" X 14" paper feeds "Short-edge" as defined in the system.

Output to Main Stacker – Stapled (Single and Dual staples) and Unstapled

Simplex to simplex; duplex to duplex

| Paper Size | Single-sided sheets printed per minute | | | Double-sided sheets printed per minute | | |
|-------------------|---|-------------|------------|---|-------------|------------|
| | 30 page job | 10 page job | 3 page job | 30 page job | 10 page job | 3 page job |
| 8.5" x 11" | 120 / 144 | 120 / 144 | 120 / 107 | 60 / 72 | 60 / 72 | 60 / 65 |
| 8.5" X 14" ** | 67 | 60 | 43 | 34 | 30 | 22 |
| 11" X 17" | 67 | 60 | 43 | 34 | 30 | 22 |

** 8.5" X 14" paper feeds "Short-edge" as defined in the system.

Finishing Transport Module (FTM)

The Finishing Transport Module enables inline finishing by providing document transport capability and full DFA support to DFA compliant finishing devices.

Key Features include:

- Dual DFA enabled output heights
- Center or Edge registered output delivery
- Varying transport speeds to maximize throughput capability
- Built-in rotator to maintain productivity when finishing smaller size applications.

Please refer to the Finishing Transport Module (FTM) Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications.



| Dimensions | Finishing Transport Module (FTM) |
|------------------------|--|
| Width x Depth x Height | 35" x 28" x 44.6" (889mm x 711.2mm x 1133mm) |
| Bypass Output Heights | 34" (860mm) & 40.3" (1024mm) |
| Weight | 389 lbs. (176 kg) |
| Clearance: Operator | Minimum 24" in front of module |
| Clearance: Service | Minimum 30" on all sides |

| Electrical & Environmental | Finishing Transport Module (FTM) | |
|----------------------------|--|---------------------|
| | Minimum | Maximum |
| Temperature Range | 41° F (5° C) | 95° F (35° C) |
| Humidity Range | 10% RH | 85% RH |
| Altitude | - 100 ft (31m) | 40,000 ft (123192m) |
| Sound Emission | | LpA 57 dBs |
| Power | 120 VAC ± 10%, 60 Hz, 7.5 A 220 VAC ± 10%, 50 Hz, 3.5 A | |

| Media Latitude & Capacity | Finishing Transport Module (FTM) | |
|---------------------------|---|--|
| Stock Weight Range | Uncoated: 40 lb. text to 90 lb. cover (56 to 250 gsm) Coated: dependent on the finishing device attached | |
| Stock Size Range | Top Tray | 7" x 10" to 12.6" x 18.5" (177.8mm x 254mm to 320mm x 470mm) |
| | Bypass with Rotation | 7" x 10" to 12.6" x 14.3" (177.8mm x 254mm to 320mm x 363.2mm) |
| | Bypass without Rotation | 7" x 10" to 12.6" x 18.5" (177.8mm x 254mm to 320mm x 470mm) |
| Top Tray Capacity | 250 (20 lb. bond / 75 gsm) | |

Xerox DS5000 High Capacity Stacker

The DS5000 High Capacity Stacker (HCS) provides long periods of unattended operation and facilitates transport of accumulated offset stacks of printed output for post processing. The stacks are easily moved on one of two wheeled dollies supplied with stacker.. The stackers bypass capability allows for transporting output to inline 3rd party finishing devices. A Finisher Transport Module is required for in-line connectivity to the printer.



Please refer to the DS5000 Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications

| Dimensions | DS5000 |
|------------------------|---|
| Width X Depth X Height | 39.4" x 28.7" x 47.2" (1000mm x 730mm x 1200mm) |
| Input Height | 40.3" (1024mm) |
| Bypass Output Height | 40.3" (1024mm) |
| Weight | 429 lbs. (195 kg) (includes 1 dolly) |
| Clearance: Operator | Minimum 24" in front of module |
| Clearance: Service | Minimum 30" on all sides |

| Electrical & Environmental | DS5000 | |
|----------------------------|---|----------------|
| | Minimum | Maximum |
| Temperature Range | 50° F (10° C) | 90° F (32° C) |
| Humidity Range | 10% RH | 85% RH |
| Altitude | No restriction | No restriction |
| Sound Emission | | 72 dBs |
| Power | 107 - 127 VAC, 60 Hz, 15 Amps, Single Phase 220/230/240 (Line to Neutral) VAC ± 10%, 50 Hz, 13 AmDPS/10 Amps GFI Independent Power Cord | |

| Media Latitude | DS5000 |
|--------------------|--|
| Stock Weight Range | Uncoated: 16 lb. bond to 110 lb. index (60 to 200 gsm) Coated, Single Side: 120 – 220gsm Coated, Two Sides: 120 – 220gsm |
| Stock Size Range | 7.0" x 10.0" to 12.6" x 18.5" (177.8mm x 254mm to 320mm x 470mm) |
| Specialty Media | Carbonless, Tabs, Never Tear, Pre-printed Offset |
| Top Tray Capacity | 250 (20 lb. bond / 75 gsm) |
| Main Stacker | 5000 (20 lb. bond / 75 gsm) Maximum Stack Height 18.3" (465mm) |
| Stapler | None |

C.P. Bourg BDFx Booklet Maker with Optional BCFx Covers Feeder and SquareEdge Module

The C.P. Bourg BDFx is a fully automated signature booklet maker, which produces high quality saddle stitched booklets inline. The optional cover insertion module (BCFx) can feed preprinted cover stock up to 300 gsm in sheet sizes up to 11" x 17".

The new SquareEdge (SQEDG) Module option further expands its capability by offering an optional square edge spine. The BDFx can also top or corner stitch from 2 to 50 sheets. In addition, it can be used in the fold only mode.

A Finisher Transport Module is required for in-line connectivity to the printer.

A BFM Plus or a Xerox Document Stacker 5000 is required for stacking capability.



Please refer to the C.P. Bourg BDFx Booklet Maker Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications.

| Dimensions | Bourg BDFx | Bourg BCFx | SQEDG |
|------------------------|---|--|---|
| Width x Depth x Height | 105" x 30" x 71" (267mm x 76mm x 1803mm) | 26.75" x 27" x 52" (680mm x 687mm x 1320mm) | 28" x 29.5" x 49" (707mm x 745mm x 1242mm) |
| Input Height | 34" (860mm) 40.3" (1024mm) | 34" (860mm) 40.3" (1024mm) | 34" (860mm) 40.3" (1024mm) |
| Output Height | NA | 34" (860mm) | NA |
| Weight | 992lbs. (450 kg) | 198 lbs. (90 kg) | 291 lbs. (132 kg) |
| Clearance: Operator | Minimum 24" (610 mm) in front of module | Minimum 24" (610 mm) in front of module | Minimum 24" (610 mm) in front of module |
| Clearance: Service | Minimum 35" (889 mm) on all sides | Minimum 35" (889 mm) on all sides | Minimum 35" (889 mm) on all sides |

| Device | North America | Europe |
|-------------|-------------------------------|------------------------------|
| BDF-X Power | 120 VAC (+/- 10%), 60 Hz, 10A | 230 VAC (+/- 10%), 50 Hz, 7A |
| BCF-X Power | 120 VAC (+/- 10%), 60 Hz, 5A | 230 VAC (+/- 10%), 50 Hz, 3A |
| SQEDG Power | 120 VAC (+/- 10%), 60 Hz, 5A | 230 VAC (+/- 10%), 50 Hz, 3A |

| BDFx / BCFx/ SQEDG Environment | | | | |
|--------------------------------|----------|---|----------------|----------------------------------|
| Temperature | Humidity | Heat Emission | Sound Emission | Altitude |
| 41 – 85° F 5 – 29° C | 50-85% | BDFx 2560 btu / hr BCFx 1590 btu / hr SQEDG 2400 btu / hr | 72 dba | (100) – 4000 ft (31) – 1219 m |

| Stapling / Folding | | Specifications |
|----------------------------|--------------------------------------|--|
| Paper Type / Weight | BDFx / SQEDG: | Uncoated Stock, 16 lbs Bond – 110 lbs Index (60 - 200 gsm) Uncoated Cover Sheet: Uncoated 20lb - 10 pt cover (80 - 300gsm) Coated Stock: Please see Solutions Planning Guide |
| | BCFx: | Uncoated Cover Stock, 20 lbs Bond – 10 pt cover stock (80 – 300 gsm*) * - for all cover stocks, excluding window cutouts Coated Stock: Please see Solutions Planning Guide |
| Paper Size | BDFx / SQEDG | 5.5 x 8.5" – 12.6 x 18.5" (140 x 216 mm – 320 x 470 mm) |
| | BDFx w / BCFx in bypass mode: | 8 x 8" – 12.25 x 17" (203 x 203 mm – 310 x 432 mm) |
| | BDFx w / BCFx feeding covers | 8 x 8" – 11.75 x 17" (203 x 203 mm – 298 x 432 mm) |
| Booklet Sizes | BDFx | 5.5 x 4.25" – 12.6 x 9.25" (140 x 108 mm – 320 x 235 mm) |
| | BDFx w / BCFx in bypass mode | 8 x 4" – 12.25 x 8.5" (203 x 101 mm – 310 x 216 mm) |
| | BDFx w / BCFx feeding covers | 8 x 4" – 11.75 x 8.5" (203 x 101 mm – 298 x 216 mm) |
| Edge Stapling | BDFx / SQEDG | 5.5 x 8.25" – 11.7 x 14" (140 x 210 mm – 297 x 356 mm) |
| | With BCFx | 8 x 10" (SEF) – 11.7 x 12.25" (LEF) (203 x 254 mm – 297 x 310 mm) 8 x 10" – 11.7 x 14" (203 x 254 mm – 297 x 356 mm) |
| Face Trim | | 0 – ¾" (0 – 19 mm) |
| Stitch Head | | Two to four stitch heads (Hohner or Acme) |
| Sheet Capacity (Stitching) | Edge / Top / Corner Stitching | 2 – 50 sheets |
| | Saddle Stitching | 2 – 22 sheets (20 lb Bond / 80 gsm) |
| Input Height | | 34" (860 mm) and 40.2" (1021 mm) |

Xerox SquareFold® BookletMaker (SQFBM)

The Xerox SquareFold Booklet Maker (SQFBM) is a unique Xerox finishing product offering. The SQFBM has an additional SquareFold Module that flattens the edge of a saddle-stapled booklet to produce the look and feel of a perfect bound book.

SquareFold booklets stand upright on shelves for easy identification and retrieval, and they stack compactly to minimize shipping costs. For small size booklets sheets can be rotated in the Finishing Transport module.

Please refer to the **Xerox SquareFold Booklet Maker Solutions Planning Guide** for further site planning information, system dependencies, limitations, valid configurations and device specifications.

| Dimensions | SQUAREFOLD® Booklet Maker (SQFBM) |
|------------------------|--|
| Width x Depth x Height | 140" x 29" x 50" (3556mm x 740mm x 1270mm) |
| Input Height | 34" (860mm) 40.3" (1024mm) |
| Weight | 1285 lbs. (583 kg) |
| Clearance: Operator | Minimum 24" in front of module |
| Clearance: Service | Minimum 30" on all sides |



| Electrical & Environmental | | SQUAREFOLD® Booklet Maker (SQFBM) | |
|----------------------------|--------------------|---|---------------------|
| | | Minimum | Maximum |
| Temperature Range | | 50° F (10° C) | 90° F (32° C) |
| Humidity Range | | 15% RH | 85% RH |
| Altitude | | TBD ft (m) | TBD ft (m) |
| Sound Emission | | 50 dBa | 70 dBa (continuous) |
| Power | SQFLD Bookletmaker | 110 VAC ± 10%, 60 Hz, 6 Amps 220 – 240 VAC ± 10%, 50 Hz, 3Amps | |
| | SQFLD Module | 110 VAC ± 10%, 60 Hz, 6 Amps 220 – 240 VAC ± 10%, 50 Hz, 3Amps | |

| Media Latitude | | SQUAREFOLD® Booklet Maker (SQFBM) |
|----------------------------------|----------------------|--|
| Stock Weight Range | SQFLD BookletMaker | Uncoated: 16 lb. bond to 110 lb. index (60 to 200 gsm) Coated Stock: Please see Solutions Planning Guide |
| Specialty Media | | Not Supported |
| Stock Size Range - Booklets | | 8.5" x 11" to 12.25" x 18.2" (216mm x 280mm to 311mm x 462mm) Cross Feed: 8.0" to 12.25" (203mm to 463mm) |
| Booklet Sizes | | 5.5" x 8.5" to 8.5" x 11" (140mm x 216mm to 216mm x 279mm) |
| Stock Size Range - Edge Stapling | | 7" x 8" to 9.125" x 14.33" (178mm x 203mm to 232mm x 364mm) Cross Feed: 7" to 14.33" (203mm to 364mm) |
| Capacity | Fold or Staple/ Fold | 1 – 22 sheets, 20 lbs (80 gsm) 6 – 22 sheets in SquareFold mode, 20 lbs (80 gsm) |
| | Edge/ Top/ Corner | 2 – 50 sheets, 20 lbs (80 gsm) |
| Stapling | | Saddle stapling, 2 staple heads with 5,000 staples |

GBC Fusion Punch II with Offset Stacker

The GBC Fusion Punch II provides inline printer punching combining printing and punching into one step. Single sheets are punched and emerge ready to be finished into lay flat documents. These types of documents are typically bound with coil, wire or plastic comb binding and will lay flat when opened.

A wide variety of hole punch patterns are available.

The die sets are lightweight and do not require setup

adjustment time when changed. The operator can easily replace them. The attached stacker can offset stack up to 2,500 sheets preparing each document for immediate binding. The Fusion Punch II can also be equipped with an optional Bypass Stacker. This allows the operator to empty one stacker while the other stacker is in use.

A Finisher Transport Module is required for in-line connectivity to the printer.



Please refer to the GBC Fusion Punch II Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications.

| Dimensions | GBC Fusion Punch II | Bypass Stacker | Offset Stacker |
|------------------------|---|--|---|
| Width x Depth x Height | 54" x 32" x 46" (1372 mm x 813 mm x 1168 mm) | 27" x 32" x 46" (686 x 813 x 1168 mm) | 27" x 32" x 46" (686mm x 813mm x 1168mm) |
| Input Height | 34" (860mm) 40.3" (1024mm) | NA | NA |
| Weight | 620 lbs. (281 kg) | 520 lbs (236 kg) | 270 lbs (123 kg) |
| Weight - Shipping | 920 lbs (471 kg) | 720 lbs (326 kg) | 470 lbs (213 kg) |
| Clearance: Operator | Minimum 24" in front of module | Minimum 24" in front of module | Minimum 24" in front of module |
| Clearance: Service | Minimum 36" on all sides | Minimum 36" on all sides | Minimum 36" on all sides |

| Electrical & Environmental | GBC Fusion Punch II | |
|--------------------------------------|--|---|
| | Minimum | Maximum |
| Temperature Range | 41° F (40° C) | 104° F (50° C) |
| Humidity Range | 30% RH | 95% RH |
| Heat Output Punch & Stacker | 1198 btu/hr. (115 V 60 Hz) | 2150 btu/hr. (230 V 50 Hz) |
| Altitude | | 3280ft (1000m) |
| Sound Emission (with stacker) | 64.7 dBs (Idling) | 73.7dBs(Running, Punch & Stacker) |
| Power - Dedicated outlet recommended | Punch | 115VAC, 60 Hz, 4.7A (230VAC, 50Hz, 6.8A) |
| | Stacker | 115VAC, 60 Hz, 1.0A (230VAC, 50Hz, 0.25A) |
| Certification | US/Canadian approval by CSA. GS mark by TUV Product Services | |
| Compliance | CE for European Union requirement | |

| Media Latitude | GBC Fusion Punch II |
|--------------------|--|
| Stock Weight Range | Uncoated: 16 lb. to 90 lb. index (60 to 200 gsm) |
| Specialty Media | Tabs |
| Stock Size Range | 7.0" x 10.0" to 11.0" x 17.0" (178mm x 254mm to 279mm x 432mm) |

| Media Latitude | GBC Fusion Punch II |
|--------------------------|----------------------------|
| Top Tray Capacity | 250 |
| Main Stacker | 2500 |
| Stapler | None |

Xerox DB120-D Document Binder

The Document Binder DB120-D uses a unique thermal binding technology combined with pre-formed covers to create a high quality professionally bound document. The DB120-D binds 8.5" x 11" or A4 documents up to 120 pages in a variety of attractive covers. You can custom order imprinted covers with your logo or a particular design. The pre-formed cover wraps around the internal pages to produce a perfect bound document with a commercial look and feel. The document pages fit neatly and uniformly into the bind for the perfect bound look with no trimming needed. The usability improves due to the hinged spine scoring which allows pages to lie flat when opened. The book binding adhesive is reinforced with a special mesh/cloth material to ensure a strong, consistent bind with no mess or oozing.



A Finisher Transport Module is required for in-line connectivity to the printer.

A BFM Plus or a Xerox Document Stacker 5000 is highly recommended for stacking capability.

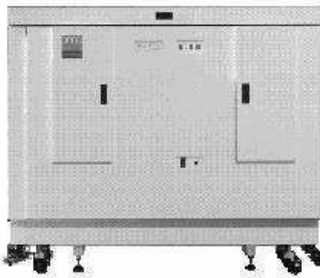
Please refer to the Xerox Document Binder 120-D Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications

| Dimensions | Xerox DB120-D Document Binder |
|------------------------|---|
| Width X Depth X Height | 59.25" x 24" x 51" (1423mm x 610mm x 1296mm) |
| Input Heights | 34" (860 mm) and (optionally) 40.2" (1021 mm) |
| Weight | 462 lbs. (210 kg) |
| Clearance: Operator | Minimum 24" in front of module |
| Clearance: Service | Minimum 24" on all sides |

| Electrical & Environmental | Xerox DB120-D Document Binder | |
|----------------------------|------------------------------------|----------------|
| | Minimum | Maximum |
| Temperature Range | 50° F (10° C) | 90° F (32° C) |
| Humidity Range | 10% RH | 85% RH |
| Altitude | No restriction | No restriction |
| Sound Emission | 43.3 dBs | 62.3 dBs |
| Power | 115 VAC ± 10%, 60 Hz, 15 – 20 Amps | |

| Media Latitude | Xerox DB120-D Document Binder |
|--|--|
| Stock Weight Range | Uncoated: 20 lb. bond to 32 lb. index (75 to 120 gsm)* * Weights above 32 lb. (120 gsm) should be used only as covers, dividers or inserts. |
| Specialty Media | Flush Cut Tabs |
| Stock Size Range | 8.5" x 11" or A4 |
| Pre-Formed Covers (Sheet count with covers based on 20lb bond (75 gsm)) | 1/16" (1.5mm) = 3-15 Sheets** (** - 1-15 sheets in Walk-up Mode) |
| | 1/8" (3mm) = 16-30 Sheets |
| | 1/4" (6mm) = 31-60 Sheets |
| | 3/8" (9mm) = 61-90 Sheets |
| | 1/2" (13 mm) = 91-120 Sheets |

Xerox Manual and Book Factory



The Xerox Manual + Book Factory (MBF) is comprised of the:

- C.P. Bourg BBF2005 – perfect binder
- C.P. Bourg BBR – out feed conveyor for the BBF2005
- C.P. Bourg BBF2005 Input – input module for the BBF2005
- C.P. Bourg BPRF – perforate, rotate, fold module (*optional*)
- Challenge CMT-330 – three-side trimmer (*optional*)
- C.P. Bourg BDFx (with optional peripherals BCFx, SQEDG, and Gateway) – booklet maker (*currently not available with Nuvera*)

Documents flow directly from the Xerox printer to the MBF without the bottleneck associated with the traditional offline binding process. The CP Bourg BBF2005 Perfect Binder and BPRF module match the output speed of the digital production press.

The CP Bourg Perforate, Rotate, Fold (BPRF) module receives the printed sheet of paper from the printer and immediately perforates the sheet with a micro-perforation across its center. The sheet is then turned 90° and folded on the perforation. The printed, perforated and folded paper then exits the BPRF and enters the accumulating section (input section) of the Bourg Perfect Binder BBF2005. This process enables productive, cost effective 2-up duplex signature printing.

The CP Bourg BBF 2005 Perfect Binder is the integrated perfect binder that produces professionally finished books quickly and easily. The Perfect Binder compiles the pages (book block) from the BPRF, jogs the pages into position and then vibrates them into alignment. The pages are clamped together and run across a milling station, which roughs the spine edge for superior adhesive adherence. After the adhesive is applied, the book block is moved to the cover mounting station. The cover is registered, applied in precise position, clamped to the book block and delivered to the output tray.

The BBF2005 perfect binder dynamically senses the thickness of the book block during the clamping operation, making it ideal for printing short runs of books with varying thickness. The book is then ready to be trimmed. As an option, the Book Factory can also be equipped with an inline trimmer, the Challenge CMT-330. The CMT 330 is a three-side trimmer designed for the on-demand printing environment. It features full digital control of the trimming process - servomotors control all adjustments normally done by hand with a traditional trimmer.

A Finisher Transport Module is required for in-line connectivity to the printer.

Please refer to the Xerox Book Factory Solutions Planning Guide for further site planning information, system dependencies, limitations, valid configurations and device specifications.

| Dimensions | BBF2005 | BPRF | BBF2005 Input Unit |
|------------------------|---|--|---|
| Width x Depth x Height | 102" x 43" x 45" 2575 x 1095 x 1143 mm | 64" x 31" x 51" 1625 x 787 x 1295 mm | 30.5" (38" with bypass option) x 28.5" x 45" 775 x 725 x 1143 mm |
| Weight | 1254 lbs (570 kg) | 562 lbs (255 kg) | 333 lbs (150 kg) |
| Weight - Shipping | 1738 lbs (788 kg) | 824 lbs (373 kg) | 407 lbs (184 kg) |
| Clearance: Operator | Minimum 24" (610 mm) in front of the device | Minimum 24" (610 mm) in front of the device | Minimum 24" (610 mm) in front of the device |
| Clearance: Service | Minimum 36" (914 mm) behind the device | Minimum 30" (763mm) on all sides of the device | Minimum 30" (763 mm) on all sides of the device |

| Dimensions | CMT-330 | Cooling Tower | Conveyors |
|------------------------|---|---|--|
| Width x Depth x Height | 84" x 34.5" x 61" 2134 mm x 876 mm x 1549 mm | 21.5" x 37" x 45.5" 550 mm x 950 mm x 116 mm | In-feed: 40" x 29" x 26" 1020 mm x 740 mm x 660 mm Exit: 47" x 12.2" x 39.5" 1200 mm x 310 mm x 1010 mm |
| Weight | 2540 lbs (1140 kg) | 335 lbs (152 kg) | In-feed: 150 lbs (68 kg) Exit: 85 lbs (39 kg) |
| Weight - Shipping | 2850 lbs (1300 kg) | 470 lbs (214 kg) | 290 lbs (132 kg) |
| Clearance: Operator | Minimum 24" (610 mm) in front of the device | Minimum 24" (610 mm) in front of the device | Minimum 24" (610 mm) in front of the device |
| Clearance: Service | Minimum 30" (763 mm) on all sides of the device | Minimum 30" (763 mm) on all sides of the device | Minimum 30" (763 mm) on all sides of the device |

| Electrical & Environmental | | BPRF / BBF2005 / BBF Input Unit / CMT - 330 | |
|----------------------------|---------|---|---------------------|
| | | Minimum | Maximum |
| Temperature Range | | 41° F (5° C) | 85° F (29° C) |
| Humidity Range | | 50% RH | 85% RH |
| Altitude | | -100 ft. (-31m) | 4,000 ft. (1,219 m) |
| Heat Output | | BPRF: 3240 btu/hr BBF2005: 10024 btu/hr CMT-330: 7500 btu/hr | |
| Sound Emission | | BPRF / BBF2005 / BBF 2005 Input: 79 db CMT-330: 80db | |
| Power | BPRF | 110 VAC, 60 Hz, 15A 230 VAC, 50 Hz, 10A | |
| | BBF2005 | 220 VAC, 20A, 3 phase 380/400/415 VAC, 50 Hz, 20A | |
| | CMT-330 | 3 Phase, 60 Hz, AC 208/230 Volts, 25 Amps (service size 30 Amps) | |
| Air | | CMT -330: 80 - 90 PSI, 5 CFM Un-lubricated | |

| Media Latitude | BBF2005 with BPRF | BBF2205 without BPRF |
|-------------------------------------|---|---|
| Stock Weight Range | Book Body: Min.: 16 lbs Bond (60 gsm) Max. (w/o Perforate & Fold): 90 lbs index (160 gsm) Max. (Perforate, Fold or Perforate & Fold): 24 lbs Bond (90 gsm) Cover: Min.: 30 lbs Cover (80 gsm) Max.: 90 lbs Cover (250 gsm) * * - May require creasing. | Book Body: Min.: 16 lbs Bond (60 gsm) Max.: 40 lbs Bond (160 gsm) Cover: Min.: 30 lbs Cover (80 gsm) Max.: 90 lbs Cover (250 gsm) * * - May require creasing. |
| Stock Size Range | 8.5 x 11" – 12.6 x 17" (210 x 280 mm – 320 x 432 mm) * * - Maximum paper size with optional Fold Plate: 12.6 x 18.5" (320 x 470 mm) | 8.25 x 7" – 12.6 x 12" (203 x 140 mm – 320 x 305 mm) |
| Book Sizes (Before Trimming) | 8.25 x 5.5" – 14 x 12" (210 x 140 mm – 356 x 305 mm) Walk-up mode: 8.25 x 3.5" – 14 x 12" (210 x 89 mm – 356 x 305 mm) | 8.25 x 5.5" – 14 x 12" (210 x 140mm – 356 x 305 mm) Walk-up mode: 8.25 x 3.5" – 14 x 12" (210 x 89 mm – 356 x 305 mm) |
| Book Thickness | Min.: 15 sheets duplex or 35 sheets simplex / 20 lbs Bond (80 gsm) Max.: 125 sheets (250 book pages) / 20 lbs Bond (80 gsm) 1.6" (40 mm) | Min.: 15 sheets duplexed / 20 lbs Bond (80 gsm) Max.: 350 sheets / 20 lbs Bond (80 gsm) 1.6" (40 mm) |

Post-process Uses of Xerox Nuvera™ 100/120/144 Digital Production System Output

The following post-process characteristics and usages for Xerox Nuvera™ output have been evaluated.

| Item | Xerox Nuvera™ 100/120/144 Digital Production System | Comment |
|----------------------------------|--|---|
| Permanence | Xerographic prints are as permanent as the paper on which they are printed. | The U.S. Patent Office accepts xerographic prints as permanent records. |
| Overprint in xerographic printer | Prints cannot be successfully fed through a xerographic printer for overprinting. | Any product with a wax-based fusing system would produce the same result. |
| Overprint in ink jet printer | Prints can be successfully overprinted on an ink jet printer, depending on the area coverage of the print and the wetting characteristics of the ink. Wetting issues are most likely when printing over an area of high dry ink coverage. They may be resolved by selecting a different setting on the ink jet printer to affect the amount of ink printed or the speed of printing. | |

Future Features™ - Xerox Nuvera™ 100/120/144 Digital Production System

A Customer /Prospect Request (C/PR) is a product feature enhancement request submitted by a Xerox Representative on behalf of a current or prospective Xerox customer. Currently, C/PR's can be submitted for PSG products only.

The C/PR web site at www.cpr.world.xerox.com can be accessed by the Xerox Representative in order to provide a detailed description of the feature request.