

bizhub PRO 1050e

Specifications

Model name		bizhub PRO 1050e	
Type		Console	
Resolution		600 dpi x 600 dpi	
Memory		256MB (DIMM) + 10GB HDD capacity of 40GB	
Gradation		256 levels	
Type of originals		Sheet, book, 3D objects	
Maximum document size		A3 (297mm x 420mm)	
Copy size	Paper size	A3, B4, A4/A4R, B5/B5R, A5, Wide size paper (max: 324mm x 460mm)	
	Non-effective image area	Top bottom edge: 2.0mm ± 2.0mm Right / Left edge: 1.5mm ± 1.5mm	
1st copy output time		Less than 3.0 seconds (with A4, platen, straight delivery)	
Warm-up time		Less than 6 minutes (at room temperature of 20°C and the rated voltage)	
Continuous copy speed		A4: 105 sheets/min., A3: 60 sheets/min.	
Magnification	Fixed ratio	Direct	1:1 ± 0.5% or less
		Enlargement	1:1.154/1.224/1.414/2.000
		Reduction	1:0.866/0.816/0.707/0.500
	User set ratio		3 types can be set
	Zoom		25% to 400%, adjustable in 1% increments
	Vertical/horizontal independent zoom		25% to 400% (0.1% units in horizontal scanning direction, 0.05% units in vertical scanning direction)
Paper supply		1,500 pages x 2 (80g/m <sup>2</sup> )	
Paper weight		Plain /recycled paper: 60 - 90g/m <sup>2</sup> Thick paper: 91 - 300g/m <sup>2</sup> (244 - 300g/m <sup>2</sup> can only be fed from PF-701 middle tray) Thin paper: 40 - 49g/m <sup>2</sup> (there are restrictions on paper types that may be used)	
Multiple		1 - 9999 sheets	
Double-sided copying		Stackless ADU standard Paper size: Max.: 324mm x 460mm; Min.: 100mm x 140mm Paper weight: 40 - 244g/m <sup>2</sup>	
Power		200VAC, 15A (50Hz/60Hz)	
Power consumption		Max: 3.45kW (with all options)	
Dimensions (W x D x H)		895 x 775 x 1,190mm (with DF/excluding operational panel) 895 x 775 x 1,020mm (without DF/excluding operational panel)	
Weight	Approx. 330kg (with DF)		
	Approx. 308kg (without DF)		

System Options

PF-701	3 x 2,000 sheet paper feed unit, A5-A3*, 50-244g/m² (all trays), 50-300g/m² (middle tray), all trays universal
FS-503	Finisher with 2 trays, max. 3,000 sheets main tray, 200 sheets sub tray, A5-A3*, 50-244g/m² (50-300g/m² sub tray), 100 sheet / multi-position stapling, staple cut function
SD-501	Saddle stitcher with fold and trim functions A4-A3; stitching / trimming: 50 sheets, 50-244g/m²; center fold: 50-200g/m²; 3-fold: 50-90g/m², max. 5 sheet folding; exit tray: max. 200 sheets/50-300g/m²
FD-501	2 x 500 sheet multi-fold, post inserter, punch unit; main tray: A5-A3*, 50-244g/m², max. 2,500 sheets, sub-tray: A5-A3*, 50-300g/m², 200 sheets; 2/4 hole punch, A5-A3, 64-200g/m²; booklet / letter (in/out) / Z-fold, double-parallel and gate-fold; A4-A3, 50-130g/m² (50-90g/m², double-parallel / gate-fold); max. 30 sheet folding, post inserter for A5-A3*, 50-300g/m²; 2 trays x 500 sheets
LS-501	5,000 sheet stacker (main tray), 200 sheet (sub-tray), A5-A3*, 50-244g/m² (50-300g/m² in sub-tray)
LS-502	Second 5,000 stacker for tandem installation with LS-501
PB-501	Perfect binding, A4-A5 (max. 307mm x 221mm), 64-91g/m², bound pages ; max. approx. 300 sheets / 600 pages (30mm thick or less) / min. approx. 10 sheets cover sheet ; max. 330.2mm x 472mm, 82- 161g/m², 1000 sheets (82g/m²)

Reverse auto document feeder (standard for bizhub PRO 1050e)

Type of document feeder	Auto-double-sided document feeder
Original paper size	A3, B4, A4/A4R, B5/B5R, A5
Original paper weight	50 - 200g/m² (double-sided documents: 50 - 130g/m² )
Original paper capacity	100 sheets (80g/m² )
Original input speed	105 sheets/min. (A4)
Power	Supplied from main unit
Maximum power consumption	100W or less
Dimensions (W x D x H)	650 x 570 x 170mm (excluding feeder tray)
Weight	Approx. 22kg

Scanner function (standard for bizhub PRO 1050e)

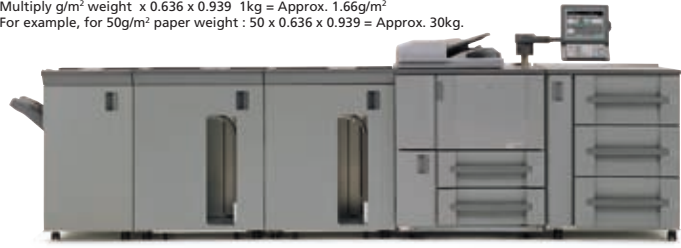
Scan resolution	A3, B4, A4/A4R, B5/B5R, A5
Speed	200 x 200dpi, 300 x 300dpi, 400 x 400dpi, 600 x 600dpi
Interface	105 sheets/min. (A4)
Scanning	Ethernet (100BaseTX / 10BaseT)
	Scan to HDD (Twain driver) Scan to FTP Scan to SMB Scan to Email (SMTP/POP before SMTP/SMTP certification)
Image compression	PDF/TIFF (using MMR or MH dip switch)

Network printer function (standard)

Type	Embedded (network standard feature)
CPU	Low voltage Pentium III Tualatin 933MHz, Access memory speed 133MHz
Memory	512MB
Hard disk	20GB or more (Standard)
Print size	A3, B4, A4/A4R, B5/B5R, A5
Speed	A4: 105 sheets/min.
Resolution	2,400dpi x 600dpi equivalent
Gradation	Binary
PDL	PCL6 (Standard), Adobe PostScript3 (Standard)
Protocol	TCP/IP (LPR, RAW), IPX/SPX (NDS, Bindery), NetBEUI, EtherTalk, IPP
OS	Windows 98 / Me, Windows NT4.0 / 2000 / XP Mac OS 8.0 or higher, Mac OS X (10.2/10.30)
Fonts	Agfa Micro Type 88 Fonts (Standard) PostScript 3 (Standard)
Interface	Ethernet (100base-TX / 10base-T), IEEE1284

•Converting paper weight

Multiply g/m² weight x 0.636 x 0.939 1kg = Approx. 1.66g/m²  
For example, for 50g/m² paper weight : 50 x 0.636 x 0.939 = Approx. 30kg.



Product appearance, configuration and / or specifications are subject to change without notice.

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- ENERGY STAR is a registered trademark in the U.S.



KONICA MINOLTA copiers and multi-functional products are designed with the environment in mind.

- Meet ENERGY STAR Guidelines
- Use Recycled Materials
- Toner Recycle Mechanism
- Production at ISO-Certified Factories



Requirements for safe use.

- Please read and follow the instruction manual to ensure safe operation.
- Only operate using appropriate power supply and voltage.
- Connecting the earth wire to an inappropriate place may cause explosion or electric shock. Please connect accordingly (Taiwan and the Philippines only).



The control software of the bizhub PRO 1050e is certified at Level 3—the highest level of security for industrial use—of ISO 15408\*.

About ISO 15408

Used for assessing the level of IT security a product provides, the ISO 15408 international standard sets a strict guideline for evaluating security policy, program design documents, source code, manuals, and other factors. A product qualifies for official designation as ISO/IEC 15408 compliant only when an independent testing facility under the International Common Criteria for Information Technology Security Evaluation ("Common Criteria" or CC) has determined that the product meets CC standards.

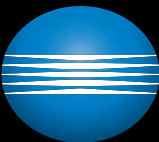
\*The ISO 15408 certification applies only to IT security capabilities. This certification is NOT a product guarantee.

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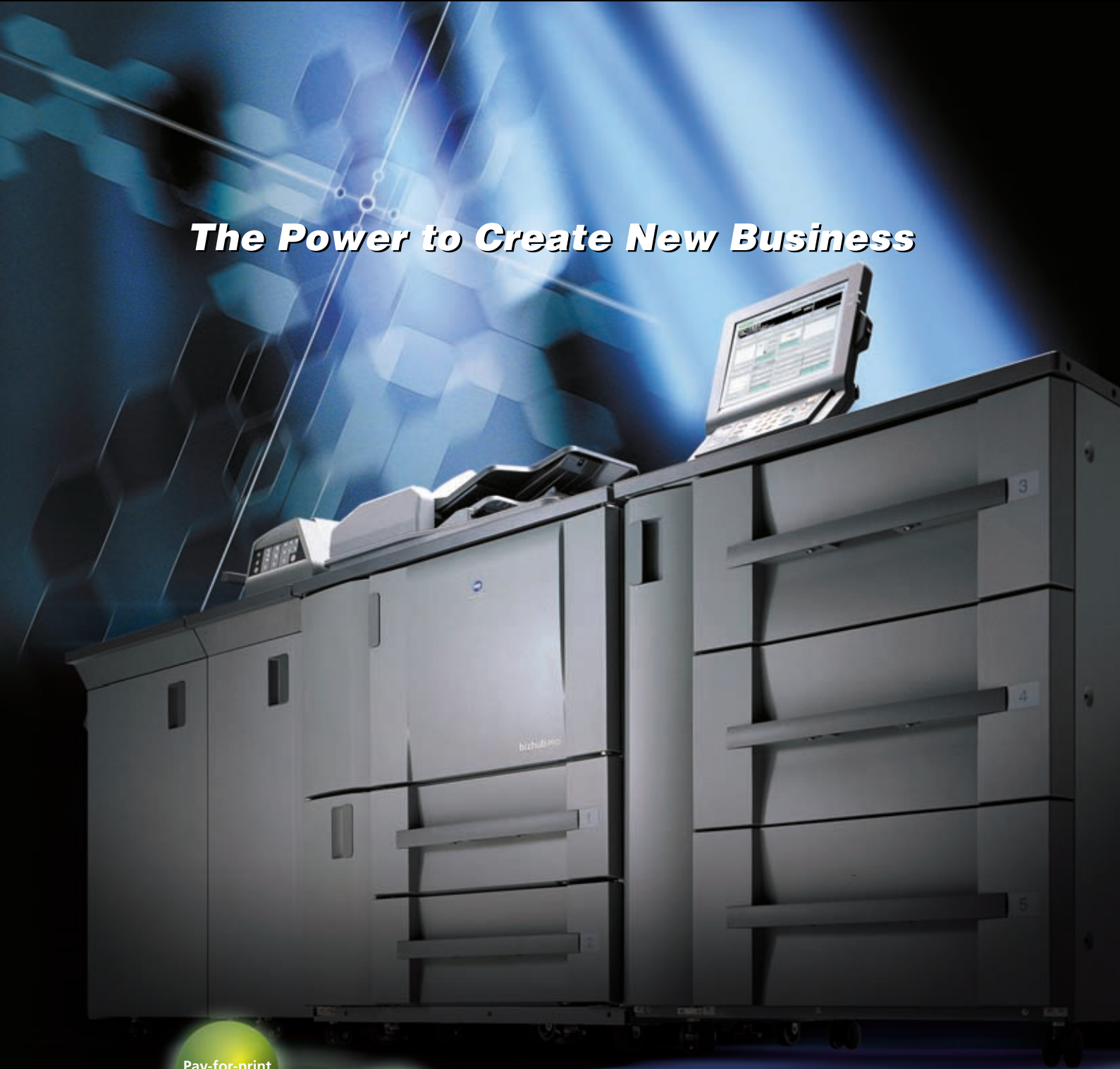


This catalog was printed on recycled paper with soy ink.



KONICA MINOLTA

bizhub PRO 1050e



Pay-for-print business

On-demand for Production Print Professionals

Commercial printing

Data center print managing

In-house-CRD printing

The essentials of imaging



# On-demand, High-speed Printing Systems for Higher Return on Investment (ROI)

Your customers demand quality, speed and affordability, and expect customized flexibility at every stage of the process. The problem is, each customer has unique needs, requiring your printing infrastructure to handle jobs it wasn't designed for. Introducing the bizhub PRO 1050e, a versatile on-demand printing solution with all the power and flexibility you need to satisfy a wide range of customer printing needs. Synergizing back-office productivity with front office usability, the bizhub PRO 1050e gives you the tools to develop new business opportunities for yourself.

Pay-for-print  
business

On-demand for  
Production Print  
Professionals

In-house-CRD  
printing

Commercial  
printing

Data center  
print  
managing

# **bizhub PRO 1050e**

Tailor-made enterprise solutions for production print professionals

## About On-demand Printing

Without the need to create film, press plates or power up an off-set printing press, on-demand capabilities offer high-speed, PC-to-paper printing solutions. The result is substantial cost and time saving, especially for small lot and quick turnaround printing requirements. On-demand printing lets you shift the power to where you need it most.

Note: product here and on the cover is shown with optional equipment





Designed for professional printing

The bizhub PRO 1050e provides unmatched durability, high efficiency and operability, while reducing overall cost and boosting total performance.

System Configuration (1) Product Features

Diagram of bizhub PRO 1050e system configuration (1) with callouts for features: Staples 100 pages, Inline clinch stapling, Sub-set stapling, 500-sheet, 2-tray PI, Fold function, Punch function, Control panel with 12.1-inch color display, Easy operation, Thumbnail display function, 9,000-sheet paper capacity, On-the-fly toner bottle replacement, Air-assisted paper feed mechanism, Saddle stitching up to 50 sheets, Small-lot cutter function, Multiple-sheet two-fold and three-fold function.

System Configuration (2) Product Features

Diagram of bizhub PRO 1050e system configuration (2) with callouts for features: 2,000 sheets x 3 trays, Air-assisted paper feed mechanism, Built-in controller, Multi-tasking, Transmission function, Image editing function, 5,000-sheet stack/shift, Accommodates multiple attachments.

Multiple Configurations for the bizhub PRO 1050e that's Right for Your Customer's Business

Grid of 6 system configurations (SYSTEM 1 to SYSTEM 6) with icons and descriptions for different business needs like high-volume professional printing, low-volume saddle stitching, post-print processing, high-volume document output, small lot booklet production, and small lot document printing.

Table with 4 columns and 2 rows listing specific components and their capacities: Main unit (1,500 sheets x 2), Folder (6 types), Saddle stitching (up to 50 sheets), Large-capacity stacker (5,000 sheets), High-capacity tray (2,000 sheets x 3), Staple finisher (up to 100-sheet), Perfect binding (up to 300 sheets).





**bizhub PRO 1050e**

# High Productivity & High Reliability

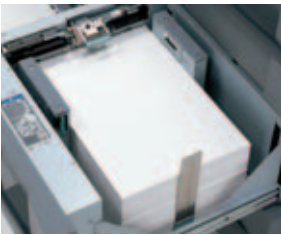
Fast printing speeds and large-volume processing abilities meet a wide range of print industry needs

## 105 ppm high-speed A4 monochrome printing

With single-chip twin-beam lasers, a high-speed rotating polygonal mirror and stackless double-sided printing capabilities, the bizhub PRO1050e delivers print speeds of 105 ppm for A4 monochrome and 60 ppm for A3 monochrome, providing an ideal solution for high-volume, quick turnaround orders. With a warm-up time of less than six minutes\*<sup>1</sup> and first copy time of less than three seconds\*<sup>2</sup>, the bizhub PRO1050e provides a level of reliability and productivity designed to meet the needs of even the most demanding printing tasks, including postcards, business cards and a host of business documents.

A4  
105  
sheets/min.  
High-speed output  
High-speed scanning

A3  
60  
sheets/min.  
High-speed output

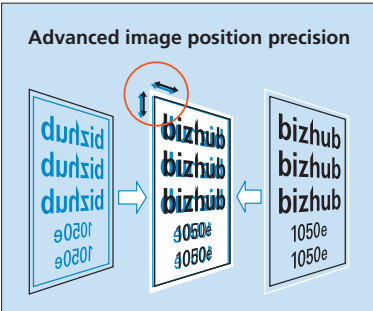


### All trays handle A3 paper

All trays can handle A3 paper. A maximum paper size of 324mm x 460mm can be stacked, with a printable area of 314mm x 452mm.

### High-quality double sided printing

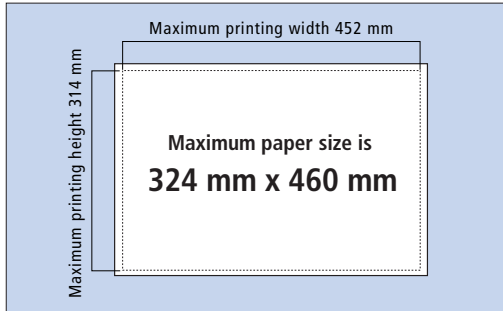
By automatically shifting the image and adjusting vertical and horizontal ratios independently, the bizhub PRO 1050e ensures accurate registration alignment for front and back pages, even from nonstandard size originals.



### Print using a wide range of paper weights

The system's ability to handle paper weights of 40 to 300g/m<sup>2</sup>\*<sup>1</sup> allows users to select a wide range of paper types including carbonless, coated and specialized paper. Output of paper up to 244g/m<sup>2</sup> is possible during double-sided processing.

\*<sup>1</sup> There are restrictions on thin paper types (40 – 49g/m<sup>2</sup>) that may be used.  
\*<sup>2</sup> 244 to 300 g/m<sup>2</sup> paper can only be loaded in the middle tray of the optional large-capacity PF701 tray.



### Large paper volume capacity

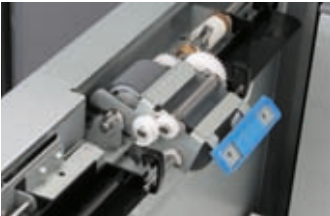
By combining two 1,500 sheet (80g/m<sup>2</sup>) trays and three 2,000 sheet (80g/m<sup>2</sup>) trays\*, the bizhub PRO1050e can be configured to hold a total of 9,000 sheets. And because the trays can be loaded with paper while the main unit is in operation, large-volume printing is possible. 5,000 sheet stackers\* are also available. A two-stacker tandem configuration holds up to 10,000 sheets.

\* Optional.

### Paper-dust and powder-removing roller

A roller that helps at the time of paper feed to remove the paper-dust and powder that remains on the paper has been installed on all of the Large-Capacity PF-701 Paper-Feed Trays\*. Removing the paper-dust, powder from the pre-printed paper allows improving the paper feedability. In addition, newly employed Automatic Cleaner Brush Unit helps to extensively reduce the frequency of the roller cleaning.

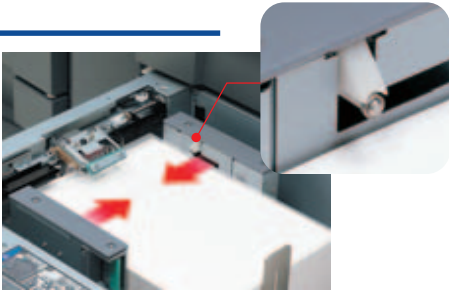
\* Optional.



### Air-assisted paper feeder

An air-assisted paper feeder keeps coated paper from sticking while being fed. Air is sent to stacks of coated paper to facilitate paper handling and maintain stable feeding. Included in the main tray, this function is also used in all Large-Capacity PF701 Paper-Feed Trays\*.

\* Optional.



Together with the air-assisted feeding system, the roller bearing allows smoother paper handling.

### Enhanced overprint features

Adding the optional Pre-Printed paper Feeding Kit PP-701\* allows the slippage caused by ink or powder to be reduced. In addition to the standard air-assist function, air is applied also from the rear end of the paper, ensuring the transportation of the paper with perforations or fold lines.

\* Optional. Installable on PF-701.



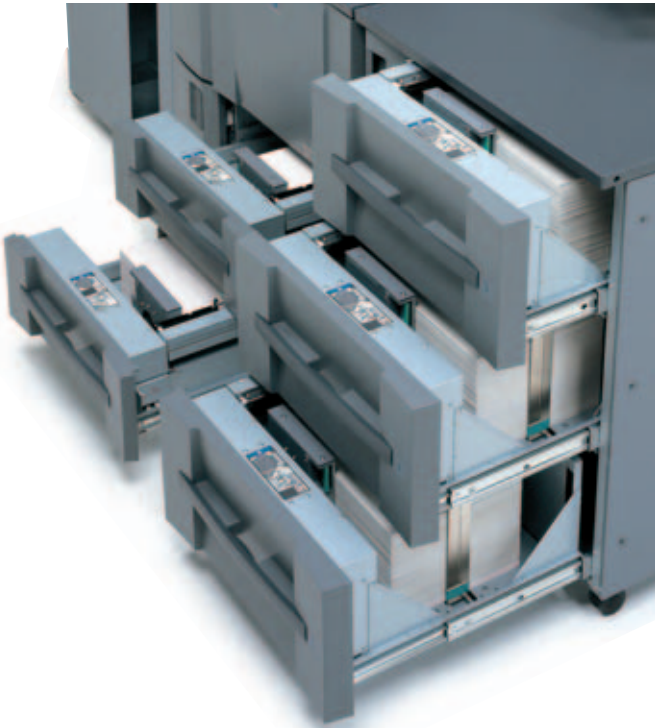
### High-performance print controller

The bizhub PRO 1050e includes a high-speed print controller that provides enhanced processing capacity, and PDF/TIFF files can be sent directly to the print controller for printing, while data spool time is reduced. In addition, the bizhub PRO 1050e comes preloaded with 88 Agfa Micro-type fonts. Adobe®PostScript®3 is standard.



### Printing from a variety of OS environments

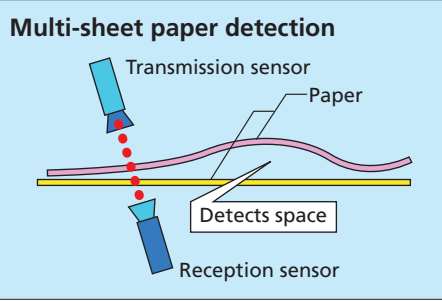
Standard interfaces include Ethernet 100Base-TX/10Base-T and IEEE1284. And support for TCP/IP, IPX/SPX, NetBEUI, IPP, EtherTalk protocols allows users to output documents from a variety of OS environments.



### Multi-sheet paper detection sensor

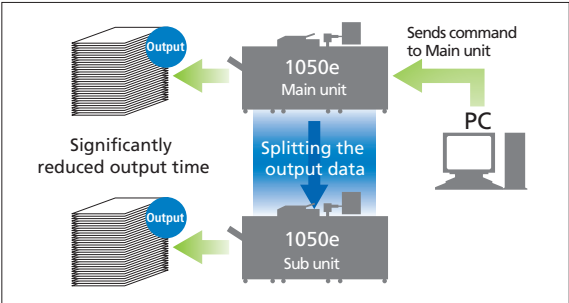
Attached to the main feeder unit, the RADF and the multi-fold hole punching unit\* is a multi-sheet paper detection sensor that keeps blank paper from being mixed in with printed materials. This ultrasound sensor detects blank paper fed from all trays. When a blank sheet is found, printing is automatically suspended to prevent printing errors.

\* Optional.



### 210 ppm capability with tandem configuration

Connecting two systems, the print controller provides support for tandem printing, allowing two machines each to output streams of A4 at 105 ppm for a total of 210 ppm. This enhances the ability of a printing facility to fill quick turnaround orders.







**bizhub PRO 1050e**

# Easy Operation & High Image Quality



The bizhub PRO 1050e increases work efficiency and cuts costs by providing a user-friendly, advanced printing environment.

## Large, intuitive LCD touch panel with universal design



From size setting to finishing, print jobs can be classified by work and function type, while an intuitive, functional touch panel design and simple key design improve operability.

### Intuitive over-sized 12.1-inch operation touch panel

The universal design of the touch panel consists of a large, intuitive 12.1-inch LCD monitor displaying operation procedures in an easy-to-understand format. The large screen tilts, allowing users to adjust the viewing angle, providing better visibility for easy location of main functions and settings at a glance. From setting up document scanning to finishing operations such as stapling and folding, a simple screen design and guide messages make each step a snap.



The screen display changes when users adjust functions, ensuring smooth setup.



Angles can be adjusted vertically and horizontally, allowing users to choose the viewing angle that best meets their needs.

## High-speed scanner can quickly digitize a large number of documents

### High-speed scanning to digitize paper documents



The reversing auto-document feeder (RADF) allows high-speed scanning at a maximum of 105 ppm in A4 size. Hardcopy and layout documents are efficiently digitized, allowing them to be managed centrally for secondary use or information sharing. Available file formats include TIFF and PDF. Digitization of documents makes it easy to manage data, while eliminating the need to physically store paper documents.

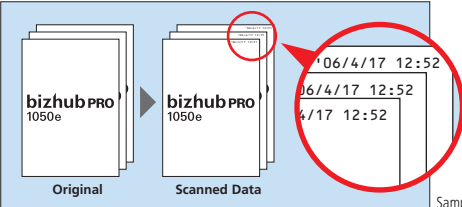
### Simultaneous input of mixed document sizes

Mixed document sizes, such as A4 and A3, can be placed together in the RADF and be scanned at once. What's more, traditionally difficult to detect Z-fold documents can be read while scanning and detecting size.



### Annotation function

When scanning by bizhub PRO 1050e, it is capable of stamping date, annotation number as a set and any words on the output copies, thus facilitating data control.



Sample of Date/Time Stamping

### Thumbnail display of stored files

Documents saved on the HD can be previewed as thumbnails without being opened.



Save-to setup window



Scan setup window

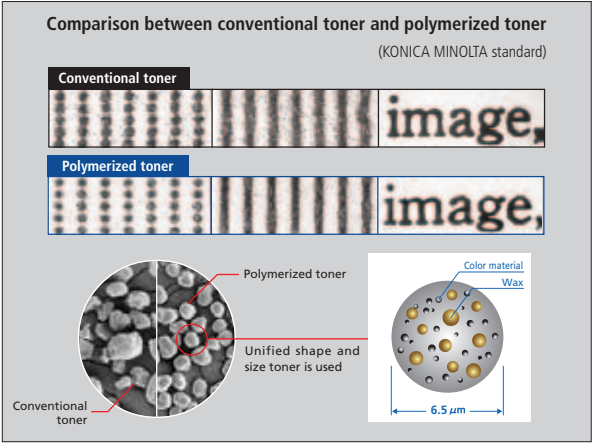


Thumbnail view

## Unique next-generation polymerized toner produces sharp, high-quality images

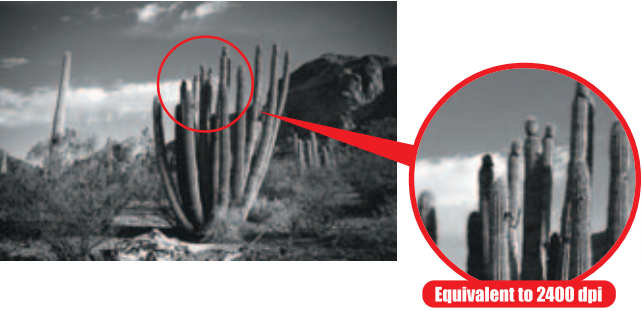
### Text and photo quality to rival offset printing

The bizhub PRO 1050e offers reproduction of sharp, high-quality photo images, illustrations and gradations that are practically indistinguishable from those produced by offset printing. Using a newly developed polymerized toner, which is composed of small, uniformly-shaped particles, deeper, high-density black and sharp particle size distribution are made possible. The result is improved reproduction of fine characters and half-tone images.



### Print resolution equivalent to 2400 x 600 dpi

While bizhub PRO offers high-quality copying at 600 x 600 dpi for all scanned originals and with very little degradation between generations, print data is digitally enhanced to output at the equivalent of 2400 x 600 dpi. With the improved clarity, detailed photographic images, illustrations and even difficult gradations print beautifully.



### Large-capacity toner bottle and hopper

The large-capacity toner bottle and hopper provide enough toner for about 176,000 printed sheets.\* And because recycled toner and new toner are mixed together in the middle hopper and then supplied to the developer, toner charging can be uniformly maintained regardless of the printing mode, resulting in stable image quality. This is effective when printing tickets or other documents with small amounts of text that require very little ink.



\* Internal test, A4 size 6% coverage.

### Enhanced printed image durability

Polymerized toner has unique features that help the durability of printed images. Smaller particles print without soaking through the paper, while the ink itself is highly resistant to discoloration. In addition, there is less deterioration when printed materials are stored for long periods of time.

### Low-temperature polymerized toner reduces curling

The low-temperature fixing toner reduces paper curling as toner is affixed. The heat applied to paper is reduced, protecting high-quality paper from slipping due to curls and allowing stapled documents to align properly.

### Overprint quality using polymerized toner



The bizhub PRO 1050e has the ability to print on previously offset-printed documents. The newly developed polymerized toner creates a smooth surface and there is almost no difference from offset printer ink, enabling variable printing of highquality documents.

## The high-precision, highly rigid body is designed to handle the rigorous output conditions of a professional printing environment

### Highly durable body design



To achieve accurate operation in all processes from input to output, a sturdy main unit frame and other durable parts were incorporated. This design is ideal for professional printing environments that demand high productivity and reliability.

### Ease of maintenance equal to that of conventional copiers



The front cover of the machine swings open, making it easy to perform internal maintenance on the paper feed port and delivery port. Problems such as paper jams can be resolved easily by simply drawing down the indicated pressure release lever and removing the paper yourself.





**bizhub PRO 1050e**

# In-line Finishing

Numerous finishing functions, including bookbinding and a variety of folding functions, improve work efficiency

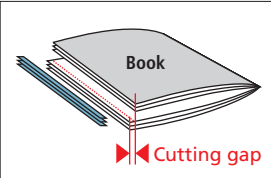


## Reinforced page-based processing functions

With a reinforced variable book-processing function, it is possible to staple\*<sup>1</sup> and fold\*<sup>2</sup> designated pages. Feeding different paper types is also possible. Additionally, saddle stitched pagination or perfect bind pagination for bookbinding can be performed in 2-in-1, 4-in-1 and 8-in-1 configurations. (For 2-in-1 jobs, single-sheet two-fold processing is also possible).

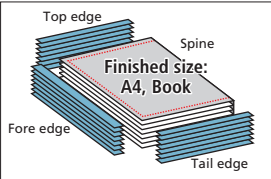
\*<sup>1</sup> Optional (when FS-503 staple finisher is attached).  
\*<sup>2</sup> Optional (when FD-501 multi-fold punch unit is attached).

### Fore-edge cutting function (equipped as standard on SD-501)



Automated fore-edge cutting at the saddle stitch binding process ensures higher productivity as well as clean finish.

### Off-line three-sided cutting

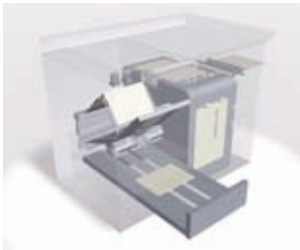


Cutting the three edges after processing with the PB-501 Perfect Binder gives even neater finish. Standard sizes can be obtained after cutting edges because it can accept wide or irregular paper sizes.

## Saddle stitch binding for books of up to 200 pages

Saddle stitching up to 50 sheets with the SD-501\* Saddle Stitcher allows users to bind books of up to 200 pages. Saddle stitching also reduces paper displacement during binding and improves the strength and accuracy of two- and three-sheet folding. Double two-fold and three-fold functions and a face trimming function that produces a stunning finish are also included. Post-processing functions, such as bookbinding, are now more efficient than ever.

\* Optional.



## Perfect binding for books of up to 600 pages by in-line processing

The PB-501\*<sup>1</sup> Perfect Binder allows the user to bind books of up to 300 sheets / 600 pages\*<sup>2</sup> (30mm thick or less). The system makes binding of thick and multi-page books simple and features simultaneous printing and gluing processes. The paper alignment technique provides a professional finish to books without three-sided cutting, enabling efficient printing and binding through in-line processing. Additionally, the system will accept up to 4 sheets of Z-folded insert sheets.

\*<sup>1</sup> Optional. \*<sup>2</sup> 64g/m<sup>2</sup>

### Binding with high quality, white hot-melt

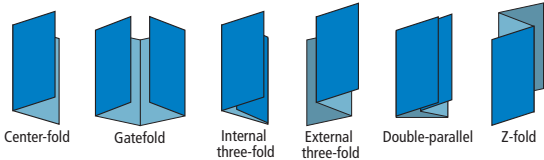
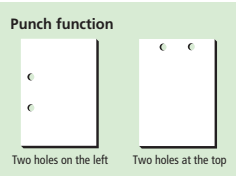
High quality, hot-melt material that is resistant to deterioration is employed, and in combination with its white color improves the visual quality of gluing. Avoiding the use of hazardous chemicals such as lead or cadmium in the material ensures environmental friendliness and allows paper recycle.



## The FD-501 multi-fold hole punching unit\*<sup>1</sup> provides six folding functions

With gate-fold processing — the first of its kind in an inline system\*<sup>2</sup>— various folding functions are possible, including letter fold-in/out and double-parallel/Z-fold. Hole punching and sheet inserter\*<sup>3</sup> functions are also available. Twin hole punching can be made on the left side of the page or at the top.

\*<sup>1</sup> Optional.  
\*<sup>2</sup> As of 2004, as determined by Konica Minolta.



Gatefold processing is now available for the first time ever in an inline system

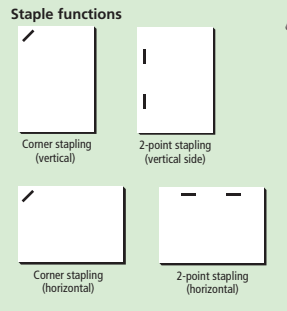
## The FS-503 Staple Finisher\* handles up to 100 sheets

By attaching the FS-503 Staple Finisher, up to 100 sheets can be stapled automatically in one of two ways: corner stapling and two-point stapling to save valuable time and labor costs. Page-based staple setting is possible for single jobs.

\* Optional.

### Staple clinch for a beautiful finish

Inline clinch assures a clean finish.



## The LS-501/502 Stacker\* with Dolly: Perfect for quick turnaround, large-volume orders

The LS-501/502 Stacker with dolly can handle up to 5,000 sheets. Using two stackers in tandem, up to 10,000 sheets are always at the ready. After paper is delivered from the system, it can be carried to the next process as is with the dolly. This paper delivery capacity significantly improves work efficiency.

\* Optional.



### Large panel for easily inputting finishing options

Users simply select icons on the operation panel to set up finishing options. This panel is useful not only for inline processing but also manual post-processing work. This panel helps make the bizhub PRO 1050e the ultimate printing environment for any level of user.

