



KONICA MINOLTA

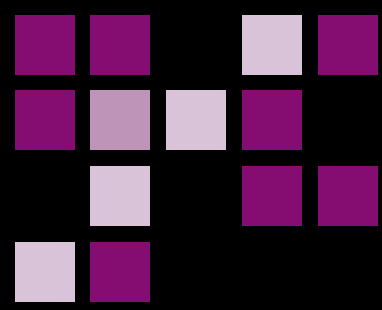
## **bizhub PRO C5501 Professional**

The full-colour on demand digital press



**bizhub PRO** 



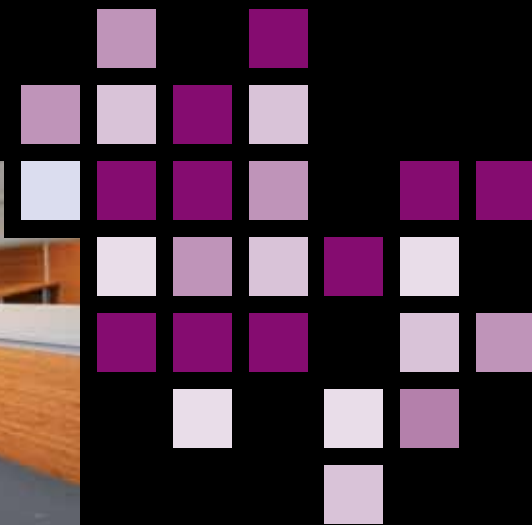


## Flexible on-demand **digital colour printing**

If you don't have the flexibility to offer your customers speed, colour, and finishing options at a competitive cost, they won't be your customers for long. That's why you need a digital colour press to reliably handle complex jobs.

Introducing the bizhub PRO C5501 Professional. Equipped with the tools you need to process and finish small lot, on-demand runs smoothly and efficiently, you can quickly move on to the next job and generate more business in less time. With the bizhub PRO C5501 Professional on your production floor, you can take every order in your stride.







# Innovative

- Full colour A4 size printing at 55 ipm
- Compatible with 300 gsm thick paper, coated paper and other media
- Image quality rivaling offset printing
- Highly accurate front/back registration
- Numerous finishing capabilities including folding, stitching and stapling
- Exceptional durability and long life of consumables



## Flexibility

**Keep your customers satisfied by completing small lot jobs in a hurry.**

Achieve quality comparable to that of an offset press for all your orders without the need for film or plates. Any job, even variable print runs and other customised documents, can be quickly output from data when it is needed.



## Reliability

**The durability to stand up to the rigors of professional printing.**

A highly rigid frame ensures excellent durability, while the box chassis is strengthened with a double layer. With long-lasting consumables, you'll enjoy exceptional cost performance with the bizhub PRO C5501 Professional.



## High productivity

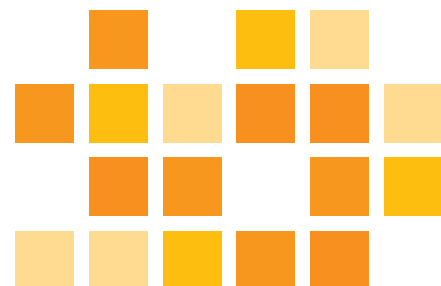
**55 ipm high-speed printing to meet even the tightest deadlines.**

When you have the power to print at a speedy 55 ipm in colour and B/W while offering impressive inline finishing, you can process more orders and take on more complex jobs. Meanwhile, on-the-fly replacement of toner and paper means reduced downtime and improved efficiency.

## In-house processing

**Take on any challenge with a variety of high-quality finishing options.**

Never turn down a job again. The wealth of finishing options includes folding, saddle stitching and stapling, and optional hole punching. Best of all, you can use paper up to 300 gsm in weight, coated sheets, and irregular sizes – everything you need to get the job done right, without outsourcing.



# Paper handling

Delivering your business needs a digital press that can effortlessly handle a diverse range of high-volume output.

## 4,250-sheet paper capacity

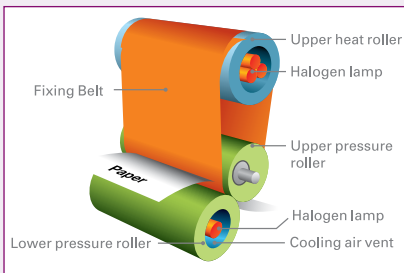
The three trays in the main unit have a combined capacity of 1,500 sheets. The LU-202 Paper feed cabinet holds a capacity of 2,500 sheets.

## Large output capacity with the Booklet Finisher FS-607

The FS-607 Booklet Finisher allows the bizhub PRO C5501 professional an output capacity of 2,500 sheets.

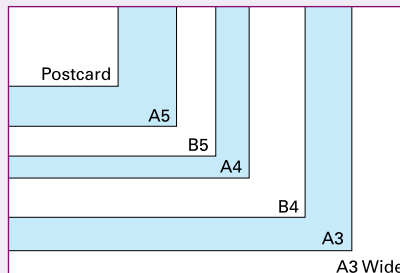


## Compatibility with a wide range of media boosts the value of your business



### Improved compatibility with coated paper

The newly developed belt-type fixing unit improves feeding accuracy and speed thanks to a wider nip width. And with a cooling vent in the lower pressure roller of the fixing unit, blistering and warping of coated paper is reduced.



### A wide range of paper supported

Sizes from postcard to 330 x 487 mm are supported, enabling A3 layouts to be output at full size, complete with trim marks. The main unit trays can handle paper between 64 gsm to 256 gsm, while the LU-202 Paper Feed Cabinet, is compatible with paper weights up to 300 gsm.



### Paper registration settings

The bizhub PRO C5501 Professional lets you register up to 60 paper types, sizes and weights along with sophisticated settings such as image correction and air-assisted paper feeding. Once registered, each job can be prepared at the push of a button.





## Exclusive technologies for stable paper feeding

### Air-assisted paper feeding

The LU-202 Paper Feed Cabinet features an air-assisted paper-feeding mechanism that separates sheets by blowing air at a constantly changing force and frequency. The occurrence of multi-feed is dramatically reduced – even for coated paper in humid conditions.



### PI-502 Post Inserter Unit

2 x 200 sheet trays



### LU-202 Paper Feed Cabinet

2500 sheets

### Main unit

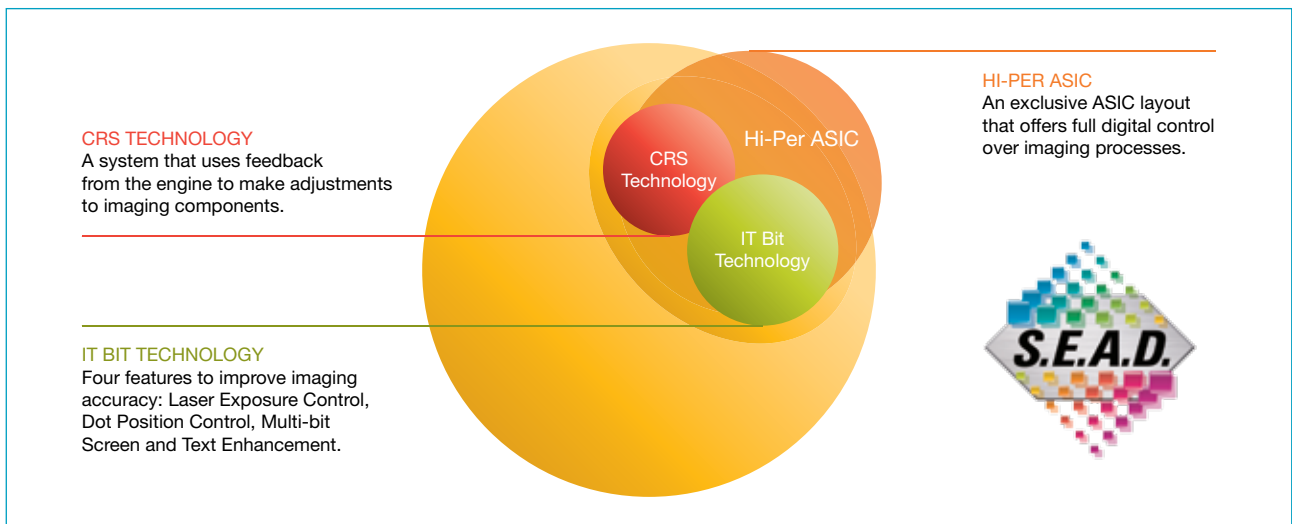
500 Sheets x 3 trays



# Image **quality**

Quality gradations so fine, colours so vivid, it's like having an offset press on your production floor. S.E.A.D. processing technology, for image quality that exceeds all expectations.

S.E.A.D. (Screen-Enhancing Active Digital Processing) is the core image processing technology behind the bizhub PRO C5501 Professional. This image processing system works closely with the machine's optics, developing unit and other processes to emphasise each component's unique characteristics and make possible a comprehensive, high-class image processing environment.



## IT bit (Image Tag bit) Technology

A collection of four technologies:

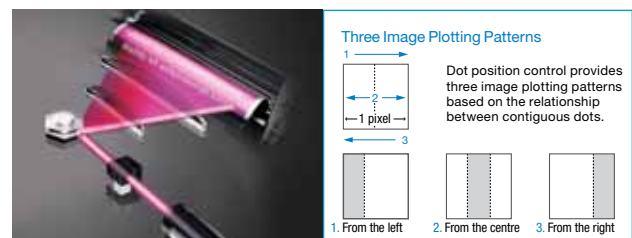
- laser exposure with nanosecond pulse control for precise dot placement of each colour,
- dot position control to write in fine resolution (1/256 of total dot width) for detailed edges of fine lines and text that runs together smoothly,
- multi-bit screening that performs 4 bit processing in the engine to express fine gradations, and
- text enhancement to accurately detect the area of print data and reproduce the colours and unique characteristics of text.

## CRS (Colour Retention and Stability) Technology

An exclusive technology that continuously monitors the status of the main body, receiving feedback about changes in the print environment and the engine to make adjustments necessary to maintain high print quality.

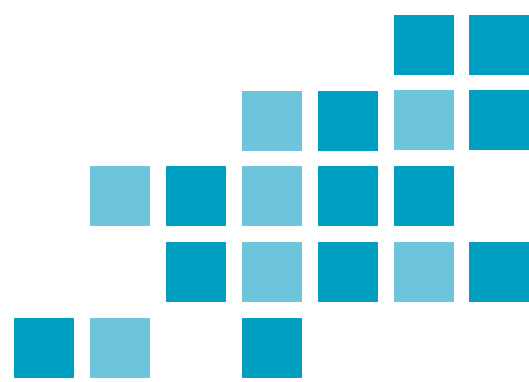
## HI-PER ASIC

An exclusive ASIC layout streamlines the imaging process from the optical system to the writing system. Each imaging step is fully controlled digitally to enable 600 dpi x 8 bit colour output at 55 ipm in extremely high image quality.



High-accuracy Laser Exposure Control





## Simitri HD polymerised toner offers high image quality

### Unique Engineered Simitri HD Polymerised Toner

The particles in Simitri HD toner are extremely small and consistent in shape, ensuring improved colour photo and illustration quality and clear reproduction of text and line drawings. The smooth outer surface and evenly dispersed wax and colour pigment offer a great hold and a consistent finish for high image quality across diverse media.



### Oil-less Fusing System

A special compound fusing process delivers high-quality, low-gloss output that allows you to celloglase and use post finishing equipment easily.

### Superior Colour Reproduction Range

Simitri HD toner provides a wider reproduction range across the entire colour spectrum. Most notably, there is visible saturation between yellow and red.

### High Durability

Simitri HD toner offers resistance to fading comparable to offset ink and excellent resistance to peeling compared to other conventional toners. Documents can be stored for long periods of time and still retain the same high image quality as the day they were printed.

### Detailed Reproduction of Fine Lines

Halftones and fine characters are reproduced with greater precision than conventional pulverised toner. This gives documents a professional-looking clarity and refinement.

### Low Temperature Fixing Reduces Paper Stress

The bizhub PRO C5501 Professional affixes Simitri HD toner using less heat energy than previous models. By reducing excess heat, this fixing process minimises paper stress allowing for an extensive range of media to be used.

Conventional toner

Simitri HD toner

Composition of Simitri HD toner

Colour material

Wax

6.5µm

Comparison of pulverised toner and Simitri HD toner (internal test)

# Image quality

## Increasing the value of documents, stabilising text and images for print.

### 1,800 dpi equivalent x 600 dpi resolution

Thanks to exclusive smoothing technology, documents can be output at a stunning 1,800 dpi equivalent x 600 dpi resolution.

### Text enhancement

During printing, text data is isolated from image data and processed to best enhance reproduction. Detailed outlines are precisely defined, while reversed text and fine text are optimised to clearly stand out.

### Detailed reproduction of small characters

A newly developed technology controls the screen by adjusting exposure time of the engine's lasers. Text at small point sizes are not only legible, but very clear.

### Stable image quality and colour alignment

The transfer belt features an optical sensor to monitor the density of toner and provide instructions such as adjusting laser strength and screen gradation to maintain consistency and precise coverage, even during long runs.

At the same time, optical sensors monitor the colour registration mark on the transfer belt, allowing for automatic correction of misalignment between colours. Doing so helps to improve the precision of colour output.



Transfer belt unit.

## Better registration accuracy for two-sided printing

### Robust ADU design

The ADU is built on a sturdy steel chassis for precise, stable performance. An additional conveyance roller reduces skew of thick and coated paper, while increasing overall paper feed capability.

### Fine-tuning image placement and registration

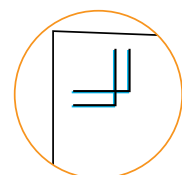
From the touch panel, users can make slight adjustments to image position (in 0.1 mm increments), and magnification (in 0.01% increments) for length and width. An exclusive chart can also be printed and measured for accuracy, enabling on-screen registration adjustments by tray.

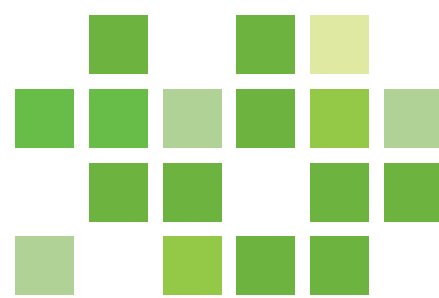
### Advanced image alignment sensors

The position of each sheet that passes through the bizhub PRO C5501 Professional is checked by a series of centering detection sensors to help ensure high registration accuracy.



Highly accurate front / back registration





# Print **controller**

More functionality with a versatile print controller.

The Fieri IC-408 is a solution for any digital press

From precise colour calibration to flexible variable printing, the Fieri IC-408 with a 80 GB HDD and 512 MB of standard memory is the pro-level print controller that seamlessly handles the rigours of a production print environment.



### From data manipulation to imposition and bookmaking **EFI Impose (Fieri)**

This optional software allows you to make adjustments to files that have already been spooled. Editing features include combining data from multiple files and applications, replacing pages and creating page impositions for saddle stitching and folding. With EFI Impose, it's easy to create new files as well as manage pre-existing files.



### Management tools for faithful colour reproduction **ColorWise (Fieri)**

Adjust colour settings to suit paper types and automate colour document workflow with ColorWise, the colour management system that ensures consistent colour across applications, computer platforms, and colour file formats.

### **Spot-On (Fieri)**

Giving you the ability to create, adjust, and use custom spot colours, Spot-On simplifies the process of job-specific colour management. Spot colour data for DIC, TOYO, HKS, and Pantone are pre-installed and spot colours can be edited and saved with CMYK values.

### **Print job management from your PC Command WorkStation (Fieri)**

A powerful network management tool, Command WorkStation gives you a high level of control right from your PC. Among other functions, spooled jobs can be reprinted and the order of queued jobs can be rearranged to prioritise output.

### **Hot Folders (Fieri)**

This timesaving feature allows you to simply drag and drop a file into a preset folder to begin printing right from a network PC. Job tickets containing user-defined output instructions for colour, size, and other settings are automatically created and embedded in the designated Hot Folder before being sent to the print controller for processing. The result is full automation of the printing process.

### **Fieri Calibrator (Fieri)**

Fieri Calibrator enables the main body scanner to measure 272 colours, making it useful as a high-precision colour measurement tool to calibrate the one line bizhub PRO C5501 Professional.

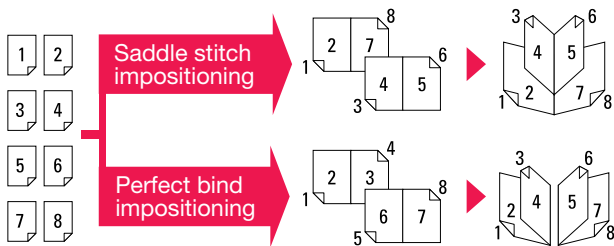
# Reliable finishing

Expand the scope of your business with automatic inline folding, saddle stitching and stapling.

When a customer places a large order for saddle-stitched booklets or presentation packages with glossy covers, and the deadline is tight, the bizhub PRO C5501 Professional has the finishing options to do the job right the first time. Time-consuming tasks such as folding, stapling, hole-punching\* and page insertion have been automated, reducing the labour required to complete a complex order.

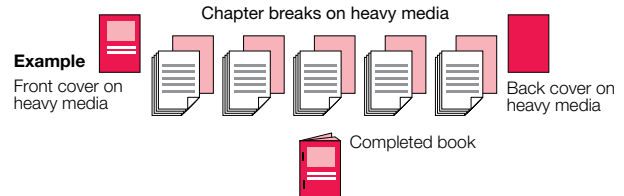
\* Hole punch feature optional

## Imposition options for various layout type



## Complex finishing processes by page

Inserting cover pages  
Inserting chapter pages

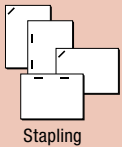


## Use reliable finishing functions to produce high-quality deliverables in house

The bizhub PRO C5501 Professional is equipped with the finishing tools you need to process and finish small lot, on-demand runs smoothly and efficiently, allowing you to quickly move on to the next job and generate more business in less time.

We offer a complete range of finishing to suit your business, whatever size, in order for you to meet the demands of your everyday print requirements. The bizhub PRO C5501 Professional finishing now give you the chance to bring more jobs in-house like, brochures, leaflets and binded documents, to not only save you time and money but also the need to outsource your everyday finishing requirements.

### FS-607 Staple Finisher



The multi-purpose FS-607 excels in a number of areas: stapling up to 50 sheets, saddle stitching 20 sheets (80 pages), and offering centre-folding and letter-folding. With the optional PK-512 Punch Kit and PI-502 Post Inserter attached, the FS-607 can also be used for hole punching and page insertion.



### PI-502 Post Inserter\*



A post inserter automates the process of inserting pre-printed covers into documents that have been previously printed. This option further enhances the scope of applications possible with Konica Minolta's bizhub PRO C5501 Professional Model.

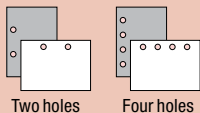
**Key features include:**

- 2 x 200 Sheet inserter trays
- Perfect for covers on saddle stitch booklets
- Ability to use finishing capabilities 'offline'

\* Optional



### PK-512 Punch Unit\*



The punch unit enables automation of the hole punching function allowing two or four holes to be drilled into sheets outputted from the digital press. The number of holes is selected from either the control panel for copy mode or the print controller driver for print mode.

**Key features include:**

- 2 and 4 hole punching
- No impact on engine productivity
- Unlimited punching

\* Optional







# Usability, **security and reliability**

## Designed for peace of mind and ease of use.

### 12.1-inch LCD colour monitor with large touch panel

The bizhub PRO C5501 Professional features a large touch-panel with an intuitive, colour interface. Despite the wealth of functions available, guide messages easily direct users through every step, from selecting paper size to setting finishing options. The panel is mounted on a swivelling arm that can be swung and tilted to accommodate the requirements of every user.

### Front access for easy maintenance

Beyond easy replenishment of paper and toner supplies, user-friendly front access also allows simple maintenance to internal parts such as the paper feed path and output areas. In the unlikely event of a paper jam, it can quickly be cleared without moving the machine.

### Easy-grip parts

Following the precepts of universal design, all trays feature handles that enable comfortable opening and closing with either an underhand or overhand grip. This idea even extends to the RADF, which is also fitted with a handle that requires minimal effort.

### Rigid assembly for reduced vibration

A highly rigid frame ensures excellent durability, while the box chassis is strengthened with a double layer. Rigid horizontal panels are used to protect the chassis from vibration caused by rotating parts in the internal mechanism. And with long-lasting consumables, you'll enjoy exceptional cost performance with the bizhub PRO C5501 Professional.

### Protect your sensitive data from unauthorised access

#### Complies with ISO15408 certification

To protect your customers' data as well as your private information, the bizhub PRO C5501 Professional features stringent security functions such as user authentication and Hard Disk Lock. These and other measures help prevent unauthorised access to your most important assets.



## Professional Digital Press

### An entry-level digital press with surprising flexibility

Despite its compact footprint, this digital press offers a 4,250-sheet paper capacity and a host of finishing functions you would expect to find only in larger digital presses. Users can easily create booklets and pamphlets with a wide variety of folding and hole-punch options, and stack up to 2,500 pages of finished output that are ready for delivery.

\*Image shown includes Post-Inserting option





# Technical specifications

## System Specifications

Model Name	bizhub PRO C5501 Professional Console (Colour Copier / Printer / Scanner)		
Resolution	Scanning	600 x 600 dpi	
	Printing	600 x 600 dpi	
Memory	DIMM	256 MB x 4	
	HDD	.40 GB x 4 (option)	
Paper sizes	Main Unit	A5 – A3 (140 x 182 mm – 330 x 487 mm)	
	Multi-bypass	A6 – A3 (100 x 148 mm – 330 x 487 mm)	
Warm-up Time		420 seconds or less	
First-copy Time	Full Colour	6.5 seconds or less	
	B/W	5.0 seconds or less	
Copy Speed	Full Colour	36 cpm (A3), 41 cpm (B4), 55 cpm (A4), 55 cpm (B5)	
	B/W	36 cpm (A3), 41 cpm (B4), 55 cpm (A4), 55 cpm (B5)	
Magnification	Fixed	Fixed Ratio: 1.1 ±0.5%; Reduction: 0.500/0.707/0.816/0.866; Enlargement: 1.154/1.224/1.414/2.00	
	Zoom	Zoom: 25% to 400% in 0.1% increments, 3 user settings	
Paper Capacity (Main Unit)		500 x 3 sheets + 250 sheet multi-bypass	
Paper Weights	Main Unit	64 – 209 gsm (256 gsm for A4 and larger sizes)	
	Multi-bypass	64 – 300 gsm	
Multiple Copy		Up to 9,999	
Power Requirement		240 V/15A	
Power Consumption		2.8 kW (main unit only) or less	
Dimensions (W x D x H)		786 x 992 x 1,056 mm	
Weight		Approx. 360 kg (main unit only)	

## Print Controller Specifications

Print Functions		
Model	Fiery IC-408	
Type	Embedded	
CPU	Intel Celeron-D 2.8GHz FSB 533MHz	
Hard Disk	80 GB	
Memory	Standard	512 MB
	Maximum	1,024 MB
Speed	55ppm (A4)	
Resolution	1,800 dpi (equivalent) x 600 dpi	
Printer Languages	Adobe PostScript 3 (3017), PCL6c	
Network Protocol	TCP/IP (with IP V4 & V6 support), IPX/SPX (NDS), Apple Talk, SMB, SNMP, HTTP, IPP	
Operating System	Windows 2000 (SP4 or later) / XP (SP2 or later) / Vista Windows Server 2003, Mac OS X (10.2.4 or later)	
Fonts	PS3	136 Adobe PostScript fonts, 2 Multiple Master fonts
Interface		Ethernet (10BASE-T/100BASE-TX/1000BASE-T, RJ-45), IEEE802.2 LLC/SNAP, IEEE802.3, USB2.0
Scan Functions		
Model	Fiery IC-408	
Size	Max. A3	
Resolution	200 dpi x 200 dpi, 300 dpi x 300 dpi, 400 dpi x 400 dpi, 600 dpi x 600 dpi	
Speed (B/W & Colour)	39 opm	
Main Functions	Scan to Email, Scan to FTP, Scan to HDD, Scan to SMB	
Interface	Ethernet (10BASE-T/100BASE-TX/1000BASE-T)	
Protocol	TCP/IP	
Operating System	Windows 2000 SP4/XP SP2/Server 2003 SP4/Vista, Mac OS X (10.3.9+)	
File Format	TIFF, JPEG, PDF	
Driver	TWAIN	

\*Limited functionality

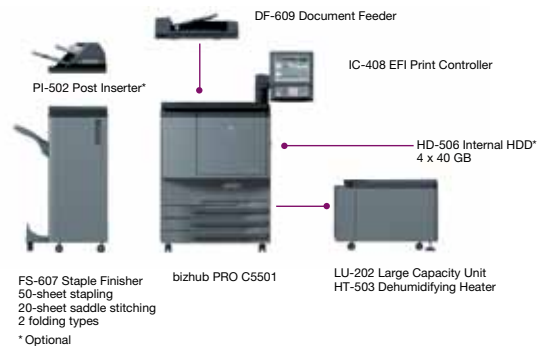
## System Inclusions

DF-609 Document Feeder	Capacity	100 sheets	
	Paper Sizes	B6 – A3 (128 x 139.7 mm – 297 x 431.8 mm)	
	Paper Weights	Single sided: 35 – 210 gsm; double sided: 50 – 210 gsm	
	LU-202 Large Capacity Cassette	Capacity	2,500 sheets
		Paper Weight	64 – 300 gsm
		Paper Format	B5 – SRA3
		Min. Max.	210 x 182 mm 330 x 487 mm
	Dimensions (WxHxD)	710 x 639 x 477 mm	
	Weight	40 kg	
	Power Source	From Main Body	
Power Consumption	Less than 50 W (without HT-503)		
HT-503 Dehumidifying Heater	Description	Prevents coated sheets of paper from sticking	
	HT-503	For the LU-202 Large Capacity Unit	
FS-607 Staple Finisher	Paper Sizes	Multi-letter fold: A4, 8.5" x 11"	
		Multi-centre fold: A4, SRA4, B4, A3, SRA3, 8.5" x 11", 8.5" x 14", 11" x 17", 12" x 18"	
	Paper Weights Capacity	Saddle stitching: A4, SRA4, B4, A3, 8.5" x 11", 8.5" x 14", 11" x 17", 12" x 18"	
		Staple: B5, A4, SRA4, B4, A3, 8.5" x 11", 8.5" x 14", 11" x 17", 12" x 18"	
Staple Modes	Multi-letter fold/Multi-centre fold/Saddle stitching/Staple: 60-105 gsm	Multi-letter fold: 50 books Multi-centre fold: 33 books (300 mm or more), 25 books (299 mm or less) Saddle stitching: 20 books (300 mm or more), 15 books (299 mm or less) Staple: 100 books (2-9 sheets, 417 mm or less), 50 books (2-9 sheets, 418 mm or less), 50 books (10-20 sheets), 30 books (21-30 sheets), 25 books (31-40 sheets), 20 books (41-50 sheets)	
		Staple: coner stapling: optional 2 points, 2-point stapling: centre	

## System Options

PK-512 Punch Kit	Punch Types	2/4 holes, Diameter 6.5 mm (Selectable)	
	Paper size	2 holes: A3, B4, A4, A4S, B5, B5S, A5, A5S, SRA4S, 11" x 17", 8.5" x 14", 8.5" x 11", 8.5" x 11" S, 5.5" x 8.5" S, 4 holes: A3, B4, A4, B5, 11" x 17", 8.5" x 11" Unable to Punch: Label paper, Index paper, OHP, Thin paper, Punched paper	
	Paper Weights	60 – 128 gsm	
	Dimension (WxHxD)	130 x 115 x 470 mm	
	Weight	Approx. 3 kg	
PI-502 Post Inserter	Power Source	from main body	
	Insertion Type	Cover Paper feeding Tray (2 trays)	
		Paper Format	Upper tray A4, A4S, B5, B5S, A5, 8.5" x 11", 8.5" x 11" S, 5.5 x 8.5, Wide size paper, Custom paper Min. 182 x 139 mm Max. 216 x 297 mm Lower tray A3, B4, A4, A4S, B5, B5S, A5, SRA4S, 12" x 18", 11" x 17", 8.5" x 14", 8.5" x 11",
	Paper weight	8.5" x 11" S, 5.5" x 8.5" Min. 182 x 139 mm Max. 314 x 458 mm	
	Paper Capacity	50 – 200 gsm	
	Dimension (WxHxD)	200 sheets x 2 trays 511 x 220 x 620 mm	
	Weight	Approx. 10.5 kg	
	Power Source	from main body	
	HD-506 Hard Drive Kit		4 x 40 GB Hard drives

## System Overview





KONICA MINOLTA

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Printed on a Konica Minolta Production Digital Press using Printgroove

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