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AccurioPress C4080/C4070 **AccurioPrint** C4065

PRODUCT GUIDE AccurioPress C4080/C4070 AccurioPrint C4065

February 1, 2021 (v1.3)



AccurioPress C4080/C4070, AccurioPrint C4065

ABOUT THE PRODUCT GUIDE

Applicable devices

This Product Guide is applicable for the below devices:

AccurioPress C4080/C4070, AccurioPrint C4065

Precautions for use of this document

This document is developed using the AccurioPress C4080/C4070, AccurioPrint C4065 service manual or 3rd party service manual (when applicable). If any discrepancies are found, please refer to the corresponding service manual.

Explanation of Symbols

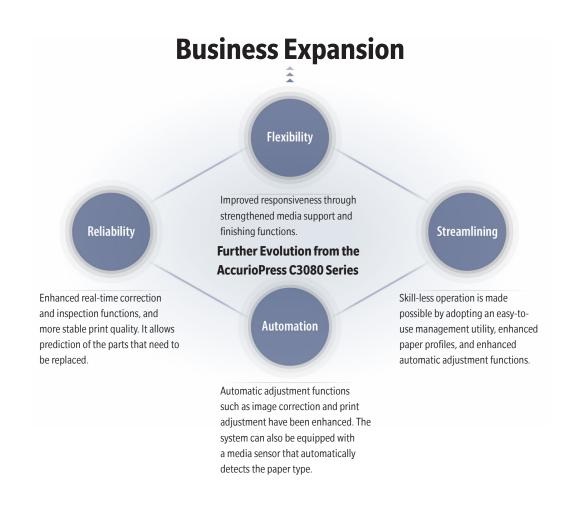
Symbol	Description
NEW}	Newly equipped function
	Function enhanced from the existing machine
	Function that requires an option

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AccurioPress C4080/C4070 AccurioPrint C4065





Accurio

Konica Minolta continues to expand the future of professional printing through a comprehensive and fully modular group of digital printing technologies and solutions: Accurio.

Accurio expands flexibility, increases speed and efficiency, and ensures high print quality for businesses ranging from dedicated printing houses to creative design houses.

Accurio includes a line of digital press suites, state-of-theart inkjet printers, and software and cloud-based tools for integrating, managing and executing seamless workflow.

Automating operations, expanding the possibilities of on-demand offerings, and providing connectivity to prepress and postpress systems, Accurio maximizes use of resources, reduces labor and costs, and raises accuracy and productivity.

As customer demands for new services and reduced costs continue to grow, printing businesses are embracing digital technology for solutions beyond paper. Accurio is the single solution for a new era in professional printing.

Advanced. Automated. Accurate.
Accurio Digital Professional Printing.



1. Main Unit

This section introduces the new features and enhancements of the main unit.



Hardware Design Improvement



Large Capacity Paper Feed and Output 🏠 🕒





Compatibility with Large Volume Paper Feed and Output Units

The AccurioPress C4080 series is compatible with large volume paper feed and output units. These options increase productivity by reducing downtime for loading paper and collecting printed materials.

Comparison of maximum paper feed capacity

	Main tray	Paper feed unit	Max. Capacity
Existing machine: AccurioPress C3080	1,500 sheets Tray 1: 500 sheets Tray 2: 1,000 sheets	13,890 sheets 4,630 x 3 units	15,390 sheets
AccurioPress C4080	1,500 sheets Tray 1: 500 sheets Tray 2: 1,000 sheets	13,890 sheets 4,630 x 3 units	15,390 sheets

Capacity of paper feed unit (21 lb [80 gsm])

	PF-707m	MB-508*1	MK-760 ^{*1}
Тор	1,390 sheets	250 sheets	10 sheets
Middle	1,390 sheets	_	_
Bottom	1,850 sheets	_	_
Total	4,630 sheets	250 sheets	10 sheets

^{*1:} When MK-760 is connected to MB-508, 250 sheets cannot be loaded into MB-508

Capacity of paper output unit (21 lb [80 gsm])





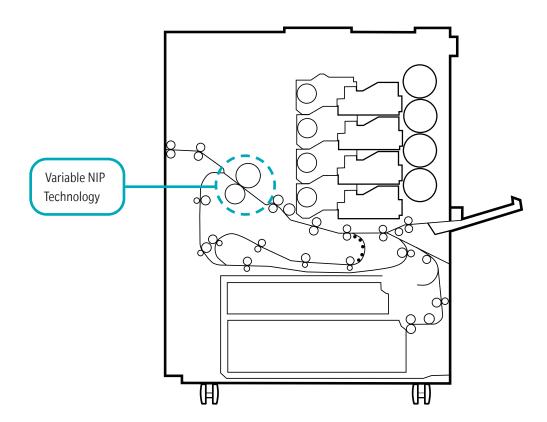
New Engine Technology 🙀 🏠

The AccurioPress C4080 series has several new engine technologies:

- Improved Print-head (PH) 8-beam laser diode (LD) print-head: Enables high-quality printing with a resolution of 3,600 (equivalent) x 2,400 dpi
- Use of variable NIP technology in the standard fuser: Allows for printing envelopes at halfrated speeds with the standard fuser
- Improved long paper path: Double-sided printing on long paper up to 34" (864 mm) in length
- New application-specific integrated circuit (ASIC): Equipped with the state-of-the-art image processing technology "S.E.A.D. X" through the use of a new application-specific integrated circuit (ASIC).

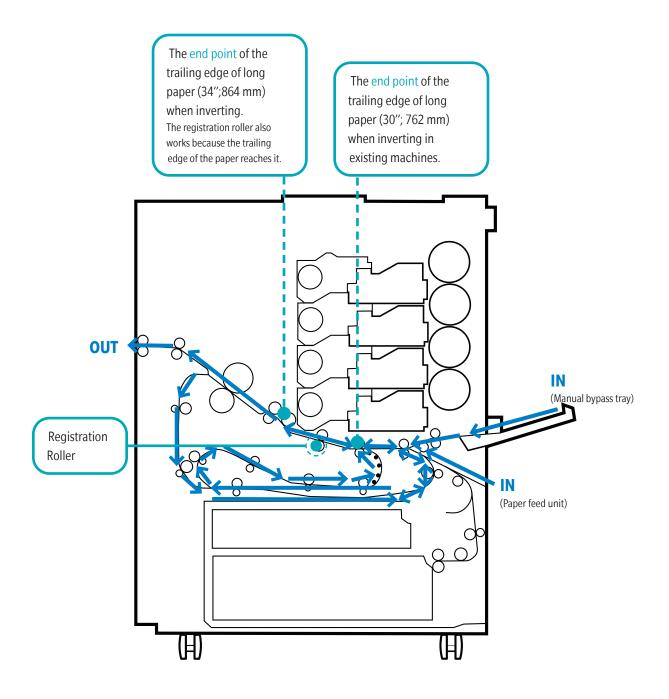
Improvement of paper path during duplex printing of long sheets

Variable Non-Impact printing (NIP) technology controls the pressure of the fuser roller. It is now possible to print on envelopes (open flaps), at 1/2 rated speeds, with the standard fusing unit instead of a dedicated fusing unit for envelope printing. A dedicated envelope fusing unit (EF-107) is available for printing at full rated speeds.



New Engine Technology 🙀

Improvement of paper path during duplex printing of long sheets



AccurioPress C4080/C4070, AccurioPrint C4065

Main Unit — AccurioPress C4080/C4070, AccurioPrint C4065

Improved Printing Performance 🙀 🏠





High-resolution printing

The AccurioPress C4080 series has a resolution of 3,600 dpi (equivalent) x 2,400 dpi, which is higher than the resolution of the existing machines 3,600 dpi (equivalent) x 1,200 dpi.

Inside the AccurioPress C4080 series, there is a 8-beam Laser Diode (LD) print head which is able to write 2,400 dpi. Previous existing models, used an 4-beam Laser Diode (LD) print head which allowed for 1,200 dpi.

Actual print samples





Improved Paper Compatibility 🏠

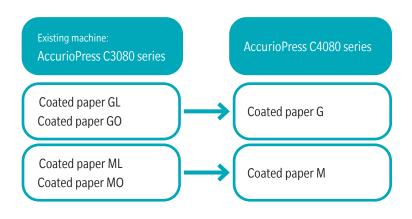
Support of thick paper up to 360 gsm

The weight of printable thick paper has increased. The existing machine was able to print on thick paper up to 350 gsm. With the AccurioPress C4080 series, it is possible to print on thick paper up to 360 gsm. Support of heavy-weight papers expands the range of printed products that users can produce.

Revised types of coated paper

The supported types of coated paper have been merged from four to two. In the existing machine, four settings, namely "Coated paper GL" and "Coated paper ML" were available for laser printing, and "Coated paper GO" and "Coated paper MO" were available for offset printing.

However, as coated papers are not distinguished for use in laser printing and offset printing in the market, the paper types were revised according to Gloss (G) and Matte (M) parameters. The selection of paper for the AccurioPress C4080 series has been simplified to two types only: "Coated paper G" and "Coated paper M".



AccurioPress C4080/C4070, AccurioPrint C4065

Main Unit — AccurioPress C4080/C4070, AccurioPrint C4065

Improved Paper Compatibility 🏠

Support of the standard fusing unit for envelopes printing

The AccurioPress C4080 series can print envelopes at half-rated speeds with the standard fuser. In the existing machine, it is necessary to install an optional fusing unit for printing on envelopes. The main unit of the AccurioPress C4080 series features an improved fusing unit that enables printing on envelopes without having to install a dedicated envelope fuser. Envelopes can be printed at full-rated speeds with the EF-107 envelope fuser.

The following restrictions apply to printing on envelopes using the standard fusing unit:

- Printing speed
 - "Low Speed" is set when the paper type is set to "Envelope". Low speed is half the normal speed
- Print quality
 - For printing jobs where image quality, such as halftones, is the priority, using the Envelope Fusing Unit EF-107 is recommended.

Envelope fusing unit EF-107

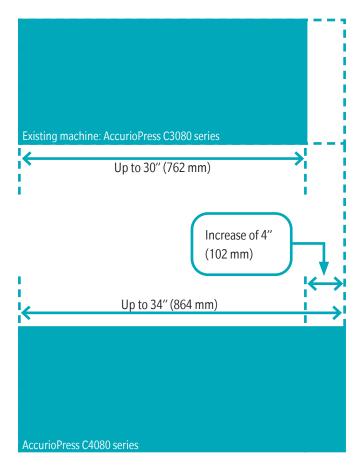
The optional Envelope Fusing Unit EF-107 allows for printing envelopes at full-rated speeds.

	Min:	3.94" x 5.82" (100 x 148 mm) 3.54" x 5.82" (90 x 148 mm)	
invelope Size		5.54 X 5.62 (50 X 146 HHH) LU-202m, LU-202XLm with MK-746 installed	
	Max:	11.30" x 15.04" (287 x 382 mm)	
Recommended	9 45" x	13.07" (240 x 322 mm)	
Envelope Size	3.43 X 13.07 (240 X 322 IIIIII)		
Envelope Weight	70 -100 gsm		
- 1 N.		pes with double-stick tape or release	
Envelopes Not		paper on the flap	Single Side Seam
Allowed		pes with film windows	3
	Envelo	pes with triangle flap	

Improved Paper Compatibility

Expanded long sheet supported for automatic duplex printing

Duplex printing of longer sheets up to 34" (864 mm) is now possible. This is a 4" increase from the AccurioPress C3080 series support of 30" (762 mm).



AccurioPress C4080/C4070, AccurioPrint C4065

Main Unit — AccurioPress C4080/C4070, AccurioPrint C4065

Media Detection Function 🙀 🏠 🕀







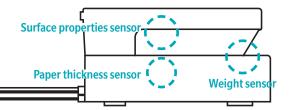
IM-101 Intelligent Media Detection Sensor

The AccurioPress C4080 series supports an external media detection sensor, a device that automatically detects the paper type and weight. The IM-101 is an optional device that connects to the main unit via USB.

The detected paper information is used to present the user with paper types and weights, and paper profile suggestions. About 300 paper profiles are registered in the built-in database, making it possible to offer users the best paper profiles. Users can select the most suitable paper profile based on the situation, reducing printing problems caused by incorrect settings. The IM-101 can be used while a job is running to set up new medias for future jobs.

Compatible paper types

- Plain paper
- Fine paper
- Coated paper G / Coated paper M





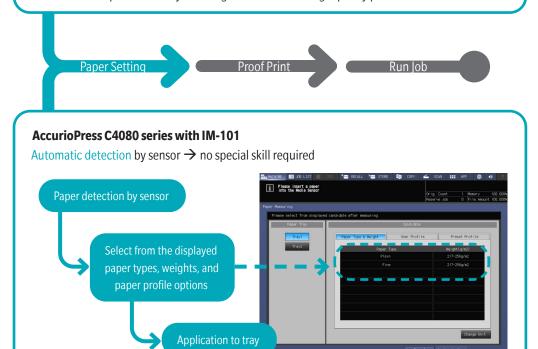
Media Detection Function 🙀 🏠 🕀

Flow from media detection to printing

Paper settings can be specified simply by selecting from the paper choices displayed on the screen, so even unskilled users can specify appropriate paper settings.

Manually set the parameters:

- Requires an understanding of paper attributes, especially when paper is left out unlabeled
- Can be input incorrectly resulting in misfeeds or image quality problems

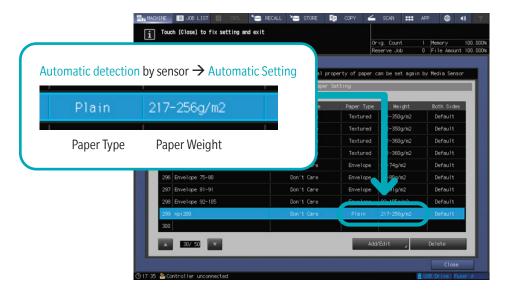




Media Detection Function 🙀 🏠 🕀

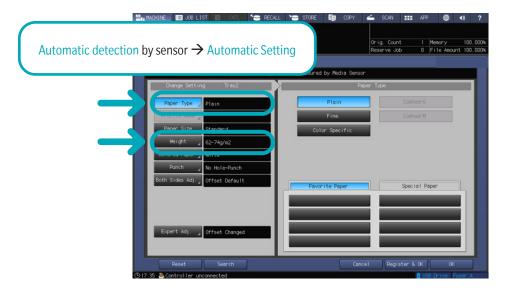
Paper profile creation support function

When creating a paper profile, the paper type and basis weight measured by the sensor can be entered automatically.

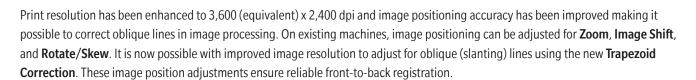


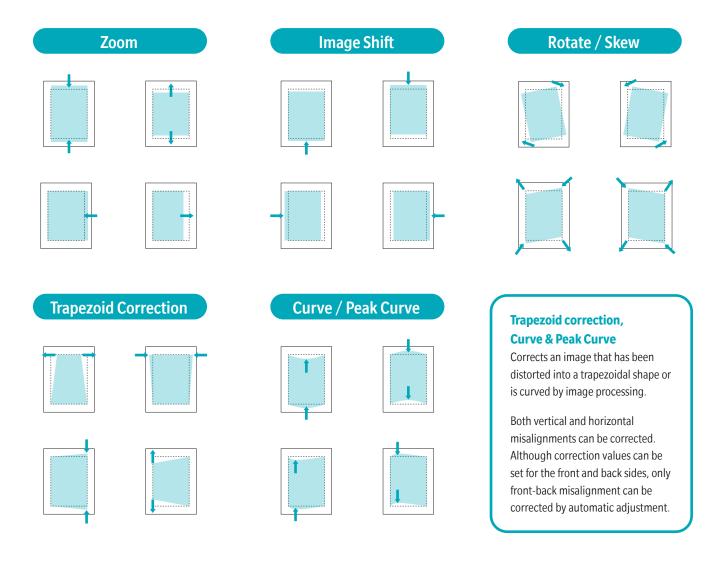
Paper setting support function

The paper type and weight measured by the sensor are automatically reflected in the paper settings of the tray.



Enhancement of Front-to-Back Registration Adjustments (***)





High-Quality Output Even Without Skills 🥋

About 300 paper profiles loaded as standard

About 300 paper profiles are loaded as standard on the AccurioPress C4080 series.

- Paper brand profiles: Brands of paper in high demand in the market
- Special paper profiles: Paper with high added value such as water-resistant paper and stone paper

Even when printing on infrequently used brands of paper or special paper, the appropriate paper profile can be used, helping to reduce errors and improve print quality.

Improved display of paper profiles

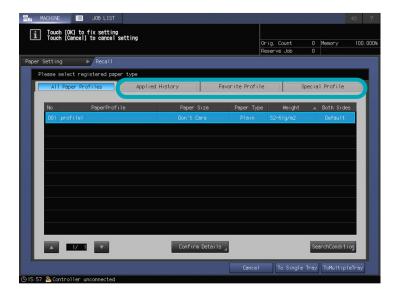
The paper profile display format has been improved to make it easier to select the appropriate paper profile.

[Applied History], [Favorite Profile], and [Special Profiles] have been added to the Paper Profile screen in the Paper Settings.

- [Applied History]: Allows you to automatically pick up and select frequently used paper profiles from your history.
- [Favorite Profile]: Allows you to select paper profiles set as favorites.
- [Special Profiles]: Allows you to select special paper profiles, such as label paper and water-resistant paper.

The improved display allows the user to quickly select the best paper profile for the situation.

[Paper Setting] Screen



Reminder note for paper profiles

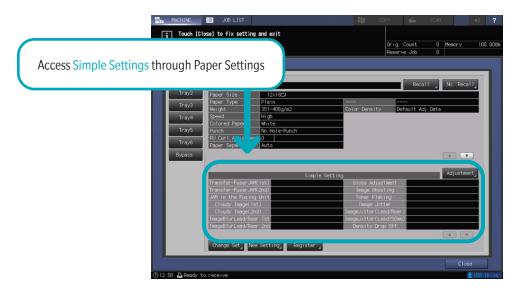
The paper profiles provided by Konica Minolta are now displayed with reminder notes such as information about jams. When a tray is opened, the reminder notes for the set paper profile are displayed on the screen.

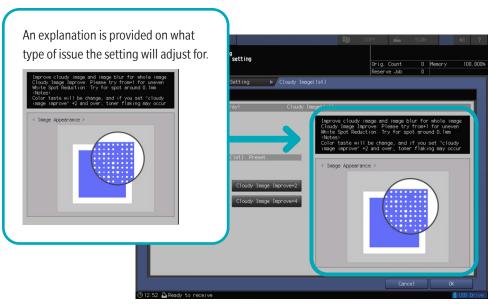
The text of the reminder notes is not registered to the paper profile itself, but text of the appropriate content is shown from among 10 set phrases registered in the main unit. The reminder notes regarding the paper are displayed on the screen, allowing the user to take appropriate action.

High-Quality Output Even Without Skills 🏠

"Easy adjustment" that allows users to make adjustments according to the printing problem

Users can now easily make adjustment according to the printing problem. To make adjustments for a printing problem, it is necessary to find the appropriate item among many setting items and set the parameters. With the AccurioPress C4080 series, the user can adjust the necessary setting items properly just by selecting the type of printing issues.





AccurioPress C4080/C4070, AccurioPrint C4065

Main Unit — AccurioPress C4080/C4070, AccurioPrint C4065

Improved Durability and Maintainability 🕪 🏠



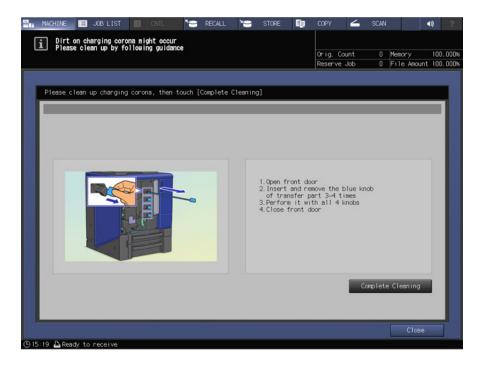
Addition of warning screen prompting for charging coronas

When you have printed over a certain number, a warning screen prompting you to clean the charging coronas is displayed on the control panel of the main unit. The charging coronas can be cleaned while following the guide displayed on the screen. Cleaning it before replacing the unit improves the life of the charging coronas.

Administrator settings / User settings

The display setting of the warning screen that prompts you to clean the charging coronas can be changed in [Shared Settings] of the administrator settings or user settings.

- [Cleaning display]: Shows/hides the warning screen.
- [Cleaning count value correction]: Allows you to select the timing display the warning screen (display earlier or later).
- [Morning display]: Displays the warning screen when the power is turned on for the first time on a certain day, if a certain number of prints has been exceeded.
- [Job suspension]: Suspends the job at the same time the warning screen is displayed.
- [Prohibition to resume job]: Prohibits the user from resuming the job when the warning screen is displayed.



AccurioPrint C4065 (NEW)

Positioned to compete with the competitions' border engines

The new AccurioPrint C4065 replaces the AccurioPrint C3070L, runs at 65 color prints per minute and 80 black and white prints per minute. The C4065 supports the same media weights, types, sizes as the C4080 and C4070; this includes media up to 360 gsm in weight, auto-duplexing sheets up to 34 inches in length, and printing envelopes with the standard fuser at half rated-speeds. And while there are some limitations to finishing options, the AccurioPrint C4065 is configurable with an all-in-one finisher allowing for saddle stitch booklets, stapling, and punching, making it a great fit for large office environments.

AccurioPrint C4065 vs. AccurioPrint C3070L: Important key differences

Envelope Printing

C4065: Envelope printing at 1/2 rated speeds with standard fuser

(optional EF-107 for printing at full-rated speeds)

C3070L: Requires EF-103 envelope fuser to print envelopes

Long Sheet Printing

C4065: Auto-duplex sheets up to 34" in length C3070L: Auto-duplex sheets up to 30" in length

Automation

C4065: External media sensor for automatically detecting paper type

and weight

C3070L: No external media sensor

	C4065	C3070L
Paper Feed Options		
LU-202m/LU-202XLm	Х	Х
MB-506		Х
MB-509	Χ	
PF-602m	Х	
PF-707m	Х	
Finishing Options		
FS-612		Х
FS-531		Х
FS-532	Х	
OT-510		Х
OT-511	Х	Х
OT-512	Х	



AccurioPress C4080 series vs. AccurioPress C3080 series 🕎



NEW		AccurioPress AccurioPress AccurioPrint C4080 C4070 C4065			AccurioPress C3080/C3080P	AccurioPress C3070	AccurioPrint C3070L
Monthly Duty	Cycle	864,000 758,000 702,000			864,000	758,000	758,000
Print Resolution	n	8- beam; 3,600 (equiv.) x 2,400 dpi			4-beam; 3,600 (equiv.) x 1,200 dpi		
Paper Size		3.94" x 5.83" to 13" 19.2" 3.94" x 5.83" to 13" 19 (100 x 148 mm to 330.2 x 487.7 mm) (100 x 148 mm to 330.2 x 487.7 mm)					
Paper Weight			62 - 360 gsm		62 - 350 gsm		
Banner Printin	g		nplex: 51" (1,300 m Juplex: 34" (864 mn		Simplex: 51" (1,300 mm) Duplex: 30: (762 mm)		
	8.5" x 11"	80 / 80 ppm	70 / 80 ppm	65 / 80 ppm	80 / 80 ppm	70 / 80 ppm	70 / 80 ppm
Productivity (Color/BW)	A4	81 / 81 ppm	71 / 81 ppm	66 / 81 ppm	81 / 81 ppm	71 / 81 ppm	71 / 81 ppm
(60101/211/	A3	45 / 45 ppm	39 / 45 ppm	37 / 45 ppm	45 / 45 ppm	39 / 45 ppm	39 / 45 ppm
Productivity	177-216 gsm	81 ppm	71 ppm	66 ppm	81 ppm	71 ppm	71 ppm
by paper	217-350 gsm	51 ppm	45 ppm	45 ppm	51 ppm	45 ppm	45 ppm
weight (A4)	351-360 gsm	45 ppm	30 ppm	30 ppm	_	_	_
Image Controllers		IC-609 (KM) IC-317 (EFI) IC-419 (EFI)	IC-609 (KM) IC-317 (EFI) IC-419 (EFI)	IC-607 (KM) IC-419 (EFI)	IC-605 (KM) IC-313 (EFI) IC-417 (EFI) IC-314 (CREO)	IC-605 (KM) IC-313 (EFI) IC-417 (EFI) IC-314 (CREO)	IC-605 (KM) IC-417 (EFI)
Dimensions (W	/ x D x H)	31.5" x 35.5" x 42.36" (800 x 903 x 1,076 mm)		31.5" x 35.5" x 42.36" (800 x 903 x 1,076 mm)		;"	
Weight		Approximately 696.66 lb (316 kg) Approximately 703.28 lb (31			319 kg)		

Notes –	- AccurioPress C4080/C4070, AccurioPrint C4065



2. Image Controller

This section introduces the new features and enhancements of the image controllers



AccurioPress C4080/C4070, AccurioPrint C4065

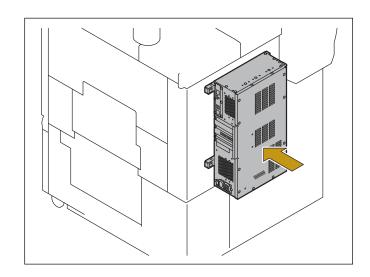
Image Controllers — AccurioPress C4080/C4070, AccurioPrint C4065

Konica Minolta IC-609/607 (NEW)

High-speed processing that's faster compared to the existing machine has been made possible through the installation of a dedicated high-speed CPU and an increased memory capacity. This is due to the IC-609/607 no longer being embedded, but now bustled to the device.

Best Fit

- CRDs, Large Offices, Print-for-Pay, Commercial Printers
- Customers who want both reasonable price and high performance with job and color management tools at no additional cost.
- Customers who do not need Fiery Command WorkStation
- Customers that want full integration with Konica Minolta Solutions (e.g., AccurioPro Flux).
- Customers that want to work on both the engine panel and/or computer.
- Customers that want high quality color and the ability to maximize the engine's color gamut.
- Customers requiring JDF/JMF connectivity.

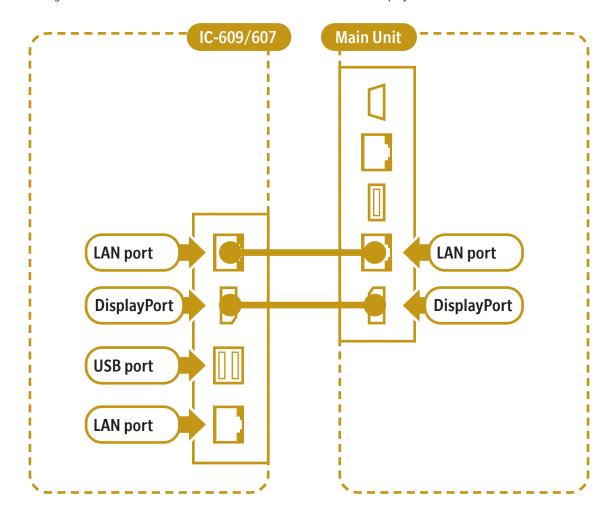


	IC-609	IC-607
Compatibility	AccurioPress C4080/C4070	AccurioPrint C4065
Architecture	Bustled	Bustled
OS	Linux	Linux
CPU	Intel [®] Core [™] i5-6500, 3.2 GHz	Intel® Pentium® G4400 3.3 GHz
Memory	16 GB	16 GB
HDD	2 TB (1 TB x 2)	2 TB (1 TB x 2)
PDL	Adobe PostScript3 (PS3020), PDF direct print (PDF version 1.7), APPE (version 4.6) - with UK-220, TIFF direct print (TIFF version 6 compliance), PPML (version 2.2)	Adobe PostScript3 (PS3030), PDF direct print (PDF version 1.7), TIFF direct print (TIFF version 6 compliance), PPML (version 2.2)
Printing Method	TCP/IP (LPR/LPD, RAW), SMB, IPP (TCP/IP), Bonjour (TCP/IP), Web service printing (TCP/IP), SNMP	TCP/IP (LPR/LPD, RAW), SMB, IPP (TCP/IP), Bonjour (TCP/IP), Web service printing (TCP/IP), SNMP



Connecting to the main unit

Connect the Image Controller IC-609-607 and the main unit with a LAN cable and DisplayPort cable.



Improved RIP speed

Compared to the IC-605 of the existing machines, the RIP for high-resolution images and other data has been increased by the installation of a dedicated CPU and greater memory capacity. As a result, the number of printable sheets per hour has significantly improved, greatly boosting user productivity.

	Existing machine: IC-605	IC-609/607	
CPU	Uses the CPU of the main unit	IC-609: Intel [®] Core™ i5-6500, 3.2 GHz	
	oses the CPO of the main unit	IC-607: Intel® Pentium® G4400 3.3 GHz	
Mamary (standard)	AccurioPress C3080/C3070: 10 GB	16 CD	
Memory (standard)	AccurioPrint C3070L: 4 GB	16 GB	

Konica Minolta IC-609/607 (NEW)

	IC-610	IC-609	IC-607	IC-6	505	IC-604
Engine	AccurioPress C14000/C12000	AccurioPress C4080/C4070	AccurioPrint C4065	AccurioPress C3080/C3070	AccurioPrint C3070L	AccurioPress C6100/C6085
Architecture	Bustled	Bustled	Bustled	Embedded	Embedded	Embedded
СРИ	Intel [®] Core™ i7-6700, 3.4 GHz	Intel [®] Core [™] i5-6500, 3.3 GHz	Intel [®] Pentium [®] C4400, 3.2 GHz	Intel [®] Core [™] i5-4570, 2.9 GHz	Intel [®] Pentium [®] C3420, 3.2 GHz	Intel [®] Core [™] i5-4570, 2.9 GHz
		Dedicated CPU		S	ame as Main Engin	е
Memory	16 GB	16 GB	16 GB	14 - 20 GB	14 - 20 GB	20 GB
Storage	3 TB	2 TB	2 TB	3 - 3.5 TB	3 - 3.5 TB	4 TB
USB Option	Yes	Yes	Yes	No	No	No
APPE Option	Std	Yes	No	Yes	No	Std

MYIRO-1 Spectrophotometer (NEW)

The Newest Spectrophotometer from Konica Minolta Sensing

The MYIRO-1 is an affordable handheld spectrophotometer designed with ease-of-use in mind. Its wireless capabilities increases the efficiency of day-to-day printer readiness by allowing you to take measurements where and when you want.

- Handheld to calibrate color presses and can be used in place of the ES-2000/ES-3000
- Can be used wirelessly
- Pricing is similar as EFI product
- Gives the ability to offer one Konica Minolta solution
- Sales of ES-2000/ES-3000 will be phased out so we can offer one more Konica Minolta solution



Fiery IC-317 vs. Fiery IC-419 (NEW)





Konica Minolta® offers two Fiery® servers designed for the Konica Minolta AccurioPress C4080 series Fiery IC-317 and Fiery IC-419. The following will help you to identify the correct solution for your production environment.

Fiery external print servers: Top reasons to buy the Fiery IC-317 server

EFI[™] offers to Fiery® server platforms for the Konica Minolta AccurioPress C4080 series — the external server Fiery IC-317 and the embedded (bustled) server Fiery IC-419. These two servers platforms vary in the level of PDF processing controls, automation, and productivity, workflow integration, and expandability they offer. The following helps you understand the benefits of an external Fiery server, how it meets your current needs and how it offers built-in flexibility for future growth.

Fiery IC-317 server only: Standard features

1. Faster turnaround times

To maximize your engine capacity, you need a high-powered digital front end to process and drive data fast enough to minimize engine idle time. More robust and powerful hardware specifications make the Fiery IC-317 server 48% faster rather than the Fiery IC-419 server, making it the best choice for production environments

2. Optimal print output

Fiery external servers running on Fiery FS400 Pro software come with Fiery JobExper[™] that lets you reduce setup time, enables faster processing, and cuts waste. JobExpert analyzes each PDF print job in detail and sets the best Fiery job settings for color management, image quality, VDP settings, and engine specific properties.

3. Flexible variable data printing services

The robust, open, flexible, and scalable variable data printing (VDP) solution supports all leading VDP formats including PDF-VT, VPS, and PPML; and works with all leading VDP composition software and formats for seamless workflows. The faster processing speed also makes offering VDP services more profitable.

4. Fiery QuickTouch software

The Fiery IC-317 features the new Fiery NX Pro hardware. The NX Pro includes Fiery QuickTouch™ software on the touchscreen display, which gives faster views of job status information and access to server management. With just a tap, the touchscreen display gives operators easy access to intuitive system installation, backup and restore, plus system diagnostics.

5. Fiery deployable image

Service technicians can save time when installing multiple Windows-based Fiery servers in a single organization. The Fiery deployable image captures a distributable image of a fully configured Fiery server, include Fiery patches, Windows security updates, and user configurations.

6. Microsoft Windows 10 IoT Enteprise 2019 LTSC

Fiery FS400 Pro external servers use Microsoft Windows[®] 10 IoT Enterprise 2019 LTSC as their operating system. This Windows edition contains the latest security protections and includes the cumulative feature enhancements provided in Windows 10 versions 1703, 1709, 1803, and 1809

7. USB security

Maintain a secure print environment. Fiery external servers prevent connection of USB storage devices by disabling Fiery features that require USB mass storage functions, such as backup and restore.

Fiery IC-317 vs. Fiery IC-419 (NEW)





Fiery IC-317 server: Optional features

1. Secure storage for print files

The optional removable hard disk drive allows you to lock the server drive into the system for normal operation and remove it to a secure location after powering down the server.

2. A centralized production workspace for operators

The Fiery NX Station is a compact, centralized workstation for Fiery external servers that adapts to different print production environments. It comes in two models: NX Station GL, which features a 22" display, or NX Station LS, which features a 27" display, 6" adjustable-height workspace, proximity sensor, and cable routing.

Operators need the ability to make the late-state edits and corrections to files

In demanding print environments, operators need to be able to easily perform last-state edits to adjust colors, impose documents into booklets, and preview full raster files. This ensure the highest quality when printing, for minimal waste and rework. The Fiery Graphic Arts Pro Package, a powerful tool set, lets you identify and correct production problems before printing a single page. This eliminates wasted prints and keeps print engines producing profitability.

4. A powerful make-ready option to produce differentiated output

Add Fiery JobMaster[™] to offer advanced PDF make-ready capabilities such as insertion of tab pages without the need to design them in the native application, multi-bank and bleed-edge tab setup, page merging, media assignment, finishing, page numbering, NCR creation, ticket numbering, plus hard-copy scanning and cleanup. This allows you to produce jobs completely inline and reduce labor costs on manual job assembly tasks.

Fiery IC-419 server: Optional features

While these features are standard on Fiery IC-317 server, you may add them as options on the Fiery IC-419 server by purchasing the Fiery ColorRight Package, Fiery Automation Package, or standalone software options. Be sure to compare the cost of the Fiery IC-419 server with the additional software added for a more accurate comparison to the Fiery IC-317 server.

1. Automated Web-to-Print submission, and integration with EFI MSI systems

Fiery servers are the only DFEs certified by CIP4 as fully compliant with the job definition format (JFD) IDP-ICS. By adhering to this standard, Fiery servers integrate seamlessly with EFI MIS and Web-to-Print systems as well as with industryleading third-party prepress workflow solutions such as Agfa Apogee, Heidelberg Prinect, and Kodak Prinergy. This helps you more efficiently deliver job specifications, update job status in real time, track job costing data, and validate equipment usage.

Superior photographic prints

Image Enhance Visual Editor, a Fiery Command WorkStation® plug-in, allows operators to make last-minute edits to a selected image without having to open the image in applications such as Adobe Photoshop.

Automated job submission that eliminates touch points

Automate job-submission workflows with Fiery Hot Folders and Virtual Printers to reduce errors and save time. This also allows operators to give more attention to other jobs that require specific finishing and color settings.

4. Accelerated production with prepress workflow automation

Add the free Fiery JobFlow Base[™] on an embedded Fiery server with Fiery Automation Package and start building ready-to-use workflows. Once Fiery JobFlow Base is enabled, upgrade to a paid license for the full version, Fiery JobFlow, for advanced prepress capabilities. You can easily configure automated job workflows including correction and editing of PDF files, plus approval, scripting, and job ticketing.

Fiery IC-317 vs. Fiery IC-419 (NEW)





Fiery Server	External - Fiery IC-317	Bustled - Fiery IC-419
Fiery System Software	Fiery FS400 Pro	Fiery FS400
Fiery Platform	NX Pro Gen II	E400
CPU	Intel® Core™ i5-6500 Processor, 3.2 up to 3.6 GHz with Turbo	Intel® Pentium® G4400 Processor (3.3 GHz)
Operating System	Microsoft Windows 10 IoT Enterprise 2019 LTSC	Linux
RAM / Hard Disk Drive (HDD)	8 GB / 1 TB SATA	8 GB / 500 GB SATA
Removable HDD	OPTIONAL	Not Available
Removable Storage	DVD-RW/CD-RW	Not Available
VDP Formats	PPML 2.0/2.2/3.0, PDF/VT-1, PDF/VT-2, VPS, Fiery FreeForm™ Plus	Fiery FreeForm Plus
FreeForm Create	INCLUDED	INCLUDED
Fiery JobExpertTM	INCLUDED	Not Available
Fiery Spot-OnTM	INCLUDED	INCLUDED
Adobe® PDF Print Engine (APPE)***	INCLUDED	INCLUDED
PDF/X Output Intent	INCLUDED	INCLUDED
Pad Printing	INCLUDED	INCLUDED
Fiery Hot Folders/Virtual Printers	INCLUDED	OPTIONAL with Fiery Automation Package*
Integration to EFI MIS and Web-to- Print systems	INCLUDED	OPTIONAL with Fiery Automation Package*
Fiery Image Enhance Visual Editor	INCLUDED	OPTIONAL with Fiery ColorRight Package*
Fiery JDF	INCLUDED	OPTIONAL with Fiery Automation Package*
Fiery ImageViewer, Fiery Spot Pro, FieryPostflight, Fiery Control Bar	OPTIONAL with Fiery Graphic Arts Pro Package*	OPTIONAL with Fiery ColorRight Package*
Fiery Preflight	OPTIONAL with Fiery Graphic Arts Pro Package*	OPTIONAL with Fiery ColorRight Package*
Fiery JobFlow Base	FREE	FREE (requires with Fiery Automation Package*)
Fiery JobFlow*	OPTIONAL	OPTIONAL (requires with Fiery Automation Package*)
Fiery Impose**	OPTIONAL	OPTIONAL
Fiery Compose	OPTIONAL	OPTIONAL
Fiery JobMaster*	OPTIONAL	OPTIONAL
EFI IQ	INCLUDED	INCLUDED
EFI ColorGuard	INCLUDED (3 year subscription)	INCLUDED (1 year subscription)
EFI Manage*	OPTIONAL	OPTIONAL
Fiery Color Profiler Suite** w/EFI ES- 2000spectrophotometer	OPTIONAL	OPTIONAL
Fiery NX Station GL	OPTIONAL	Not Available
Fiery NX Station LS	OPTIONAL	Not Available

^{*} Free 30-day trail available

 $[\]ensuremath{^{**}}$ Free trial in demo mode available

 $[\]ensuremath{^{\star\star\star}}$ Updated with enhancements and service releases on an ongoing basis

Comparison of Image Controller Options ()

	Fiery IC-317	Fiery IC-419	Konica Minolta IC-609	Konica Minolta IC-607
Engine Compatibility	C4080/C4070 C4065	C4080/C4070 C4065	C4080/C4070 C4065	C4065
Architecture	External	Bustled	Bustled	Bustled
OS	Windows 10	Linux	Linux	Linux
CPU	Intel® Core™ i5-6500, 3.2 GHz	Intel® Pentium® G4400, 3.3 GHz	Intel [®] Core [™] i5-6500, 3.2 GHz	Intel [®] Pentium [®] G4400, 3.3 GHz
RAM (std.)	8 GB	8 GB	16 GB	16 GB
HDD	1 TB	500 GB	2 TB	2 TB
APPE	Std.	Std.	Option	No

Notes -	- AccurioPress C4080/C4070, AccurioPrint C4065



3. Key Options

This section introduces the new features and enhancements of key options



Product Guide

AccurioPress C4080/C4070, AccurioPrint C4065

Key Options — AccurioPress C4080/C4070



TU-510 Trimmer Unit overview

The new Trimmer Unit TU-510, can trim in all four directions using a slitting and cutting unit. This versatile finisher has the ability to output finished business cards, as well as trimming and creasing a banner sheet to create letter size tri-fold brochures, or cutting down 11x17 to letter size.

The main functions of the TU-510 are:

- Four-side trimming
- Business card size cutting
- Creasing
- 12x18 paper to 2 letter size sheets
- Card cutting
- Perforation

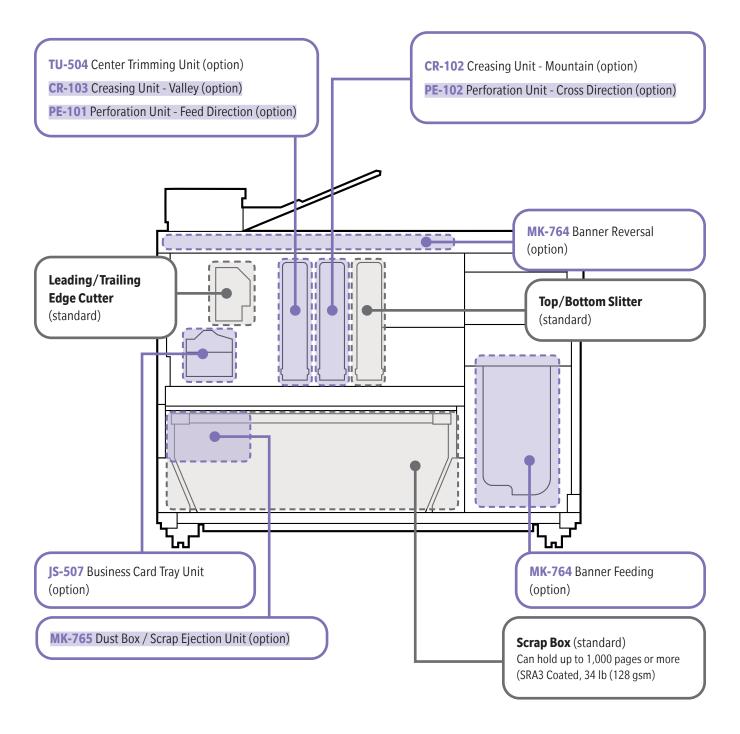
The TU-510 comes standard with a slitting (outer edge slitting) and cutting unit, which is able to trim in all four directions. Additional options include a mountain and valley creasing unit, trimming unit (allows for multiple slits in the middle of the sheet), and job separator unit (business card catch tray), and cross and feed direction perforation unit. This makes it possible to produce a large amount of printed matter requiring complex processing with ease.

Hardware platform

CR-102 Creasing Unit	Mountain crease; Creases to avoid cracking when folded
CR-103 Creasing Unit	Valley crease; Creases to avoid cracking when folded NEW
JS-507 Separator Unit	Business card catch tray
PE-101 Perforation Unit	Feed direction perforation unit NEW
PE-102 Perforation Unit	Cross direction perforation unit NEW
MK-764 Banner Unit	Enables banner feeding and paper reversal during paper output
MK-765 Dust Box / Scrap Ejection Unit	Enables scraps to output to an external box allowing for uninterrupted runs NEW
TU-504 Trimmer Unit	Allows multiple slits in the middle of the sheet

TU-510 Trimmer Unit 🙀 🏠 🕀

Internal configuration



TU-510 Trimmer Unit 🙀 🏠

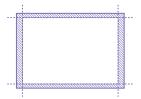




TU-510 Modes

The TU-510 has several modes for creating output, plus the ability to support sheets up to 51" in length with the MK-764. To learn more about the TU-510's functionalities, please refer to the TU-510 product guide.

Four-side Trimming (standard)



Compatible paper sizes 5.51" x 6" to 13" x 51"

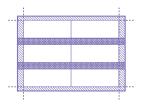
Compatible paper weight

50 - 400 gsm

Applications

Full-bleed brochures, fliers, sell sheets, posters

Card cutting (option) TU-504



Compatible paper sizes

8.27" x 6.02" to 13" x 19"

Compatible paper weight

Uncoated: 128 - 300 gsm Coated: 157 - 300 gsm

Finished paper sizes

3.35" x 5.24" to 6.02" x 9.09"

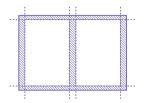
Center slitting

Gutter: 0.315" (8 mm) fixed Number of slits: 1 or 2

Applications

Postcards

12" x 18" to 2-up 8.5" x 11" (standard)



Compatible paper sizes

9.03" x 17.3" to 13" x 19.2"

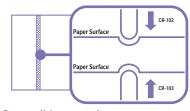
Compatible paper weight

50 - 400 gsm

Applications

2-up letter, 2-up full-bleed letter for brochures, fliers, etc.

Creasing (option) CR-102/103



Compatible paper sizes

5.51" x 6" to 13" x 51"

Compatible paper weight

80 - 400 gsm (up to 19.2" in length) 128 - 300 gsm (19.2" to 51" in length)

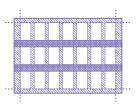
Number of creases

1 to 5 creases

Applications

Bi-fold or multi-panel brochures (prevents cracking when folding)

Business card (option) JS-507 & TU-504



Compatible paper sizes

12" x 18"

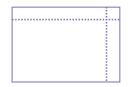
Compatible paper weight

177 - 300 gsm

Applications

Business cards

Perforation (option) PE-101/102



Compatible paper sizes

5.51" x 6" to 13" x 19.2"

Compatible paper weight

80 - 140 gsm

100 - 160 gsm (uncoated)

Perforation limits

Paper feed direction (FD): 2 Cross feed direction (CD): 5

Applications

Coupons, checks

LS-507 Large Capacity Stacker 🙀 🏠

Large-capacity stacker

A new 2 compartment system increases capacity and minimizes downtime since paper removal can be done while the engine is running.

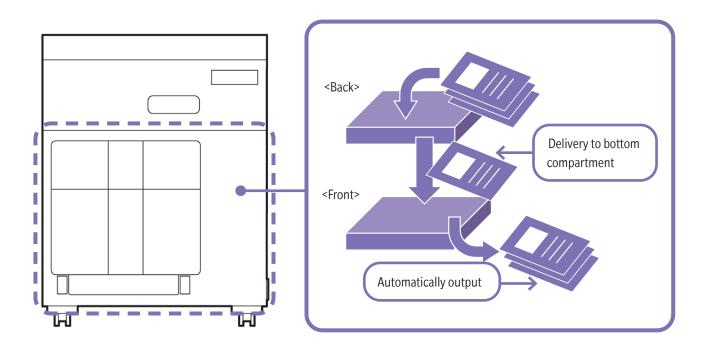
The increase in maximum loading capacity and the adoption of a 2 compartment system has significantly increased the productivity of the LS-507 large capacity stacker. The LS-507 receives the output paper into a back compartment which automatically delivers the first 3000 sheets or complete print job forward to the front compartment which automatically outputs the received paper. This front compartment can be off loaded while the engine continues to print.

This means that as long as the operator empties the front compartment the back compartment will not become full and stop, substantially increasing productivity and minimizing downtime since the output can be off loaded while the engine is running. If the output is not removed the total capacity of the LS-507 is 6000 sheets. The press can be configured with 2 LS-507s to further increase productivity.

 Compartments
 LS-506 (Existing machine: AccurioPress 3080)
 LS-507

 Back
 —
 3,000 sheets

 Front
 5,000 sheets
 3,000 sheets

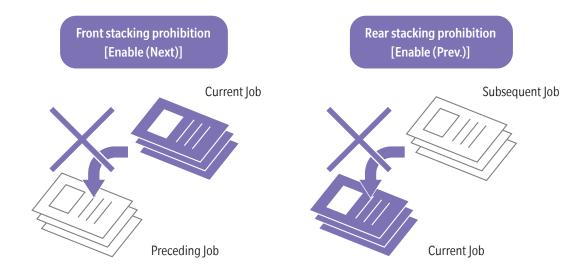


LS-507 Large Capacity Stacker (NEW) 🟠 🕀

Compartmentalized setting for stacking prohibition

The setting to prohibit stacking has been compartmentalized. It is now divided into front stacking prohibition ([Enable (Next)]) and rear stacking prohibition ([Enable (Prev.)]). In the case of the existing machine's LS-506, stacking prohibition would prohibit both stacking before the job and stacking after the job. With the **LS-507** of the AccurioPress C14000/C12000 series, the prohibited operation can now be selected according to the status of the job, before or after the job in question.

- **Front stacking prohibition:** This setting prohibits stacking of the output of the current job when the output of a previous job is already stacked (Setting: [Enable (Next)]).
- **Rear stacking prohibition:** This setting prohibits stacking of the output of a subsequent job on top of the output of the current job. (Setting: [Enable (Prev.)]).



IQ-501 Intelligent Quality Optimizer 🥎 🕒

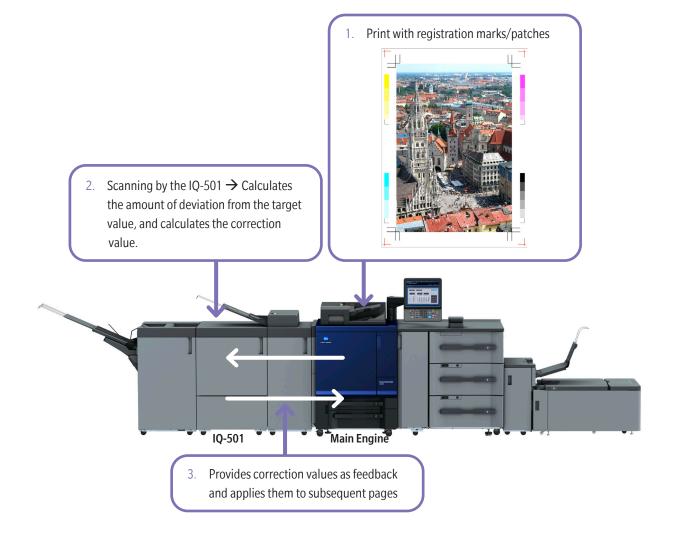


The functions of the Intelligent Quality Optimizer IQ-501 have been enhanced. The real-time adjustment function can now perform vertical trapezoid distortion correction and horizontal trapezoid distortion correction.

Enhancement of the real-time adjustment function Images can be adjusted in real-time even during job execution by printing registration marks for position adjustment and patches for tone adjustment on the paper cutting margin and scanning with the IQ-501.

By adjusting the image by comparing it to an adjustment chart, it is possible to achieve higher accuracy and print quality demanded by users.

Real-time adjustment function



Key Options — AccurioPress C4080/C4070

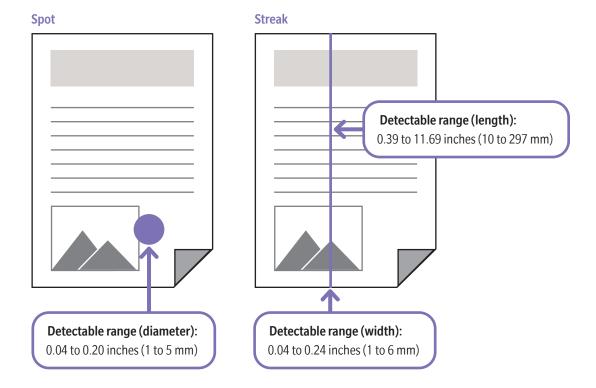
IQ-501 Intelligent Quality Optimizer 🏠 🕒

Expansion of items for inspection

A spot and streak detection function, and variable data inspection for barcodes and serial numbers has been added.

- **Spots:** Both white and colored spots measuring 0.04 inches (1 mm) or more can be detected.
- Streaks: Streaks of 0.39 inches (10 mm) or more in length and 0.24 inches (6 mm) or less in width can be detected.
- Variable data inspection for barcodes and serial numbers: This function monitors the accuracy of printed variable data, such as
 omissions and illegible barcodes or numerical data.

This prevents the user from missing printing problems such as spots, streaks, and errors in variable print output.



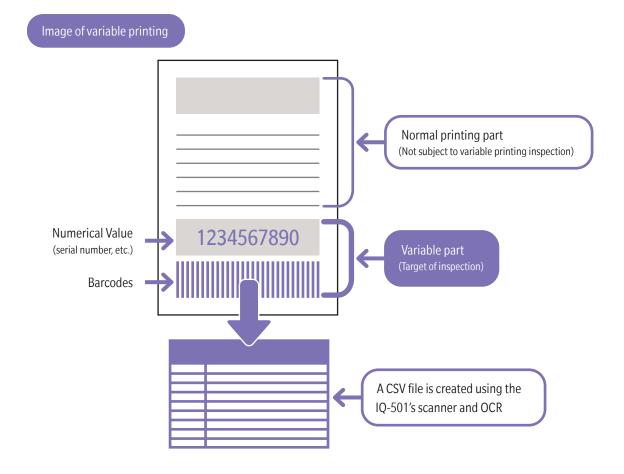
IQ-501 Intelligent Quality Optimizer 🏠 🕒

Variable data inspection for barcodes and serial numbers

The IQ-501's newest function enables it to monitor variable data jobs by reading each sheet using the scanners in the IQ-501 and OCR to generate a CSV file that can be checked manually or with a third party solution. (Requires UK-301 and RU-702.)

- By specifying the variable area in the job settings, the IQ-501 can scan the output and do the following:
- Check whether barcodes and numbers are blank or not (real-time)
- Check whether numbers are in ascending or descending order (real-time)
- Output printed barcodes and numerical data as CSV files (a separate comparison application is required to check the data)

Numerical checks that normally would require visual checking can be automatically supported.



Key Options — AccurioPress C4080/C4070, AccurioPrint C4065

DF-713 Dual Scan Document Feeder 🕪 🕀



The DF-713 Dual Scan Document Feeder allows high-speed scanning and copying of documents.

Scan Speed by Resolution	200 dpi	Color: Monochrome:	Simplex 140 ipm Simplex 140 ipm	Duplex 280 ipm Duplex 280 ipm
	300 dpi	Color: Monochrome:	Simplex 120 ipm Simplex 120 ipm	Duplex 240 ipm Duplex 240 ipm
	400 dpi	Color: Monochrome:	Simplex 100 ipm Simplex 100 ipm	Duplex 200 ipm Duplex 200 ipm
Copy Speed	600 dpi	Color: Monochrome:	Simplex 75 ipm Simplex 80 ipm	Duplex 150 ipm Duplex 160 ipm

DF-713 Dual Scan Document Feeder

- High-speed scanning
- 300-sheet tray capacity
- UK-112 is strongly recommended for scanning and copy of large jobs
 - Without the UK-112 only 128 GB SSD
 - Additional 2 TB (1 TB x 2) with UK-112 HDD



Notes — AccurioPress C4080/C4070, AccurioPrint C4065					



4. Advantages

This section explains the printer's exceptional features which give it an advantage in the market.



Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Inline Color Management

Managing color quality and consistency

Like our competitors, Konica Minolta has a system in place to manage color quality and consistency. And while all our competitors can produce great color without issue, the real challenge then becomes maintaining great image quality from the first to the last print of a run of 100 or 10,000. If the first page out does not look like the last page out, then a job can become ruined costing a printer not just money but time as well.

Konica Minolta's production engines are able to create and maintain great image quality due to the Image Density Control (IDC), Color Density Color (CDC), and IQ-501 Intelligent Quality Optimizer. Most of our competitors have some variation of a color management system on their devices, but what makes Konica Minolta's production print engines different is that we have a **multi-step process**, **which strategically checks the color consistency in the engine and outside the engine on any substrate indicated by the operator**.

Linearization & calibration

In order to allow Konica Minolta's production print engines to produce and maintain great image quality, the device must first be linearized, and then calibrated to desire RIP (Raster Image Processor). Linearization is the process of setting the device to its optimal output — the optimal output is a set color gamut provided by Konica Minolta.

Once the device is linearized, it can then be calibrated to the desired RIP. Calibration provides the fine tuning needed to set the machine to a standardized or custom output. Both linearization and calibration set up the engine for accurate color.

Image density control

The IDC controls the toner to developer ratio that gives the potential for great color. Inside the engine, there is a densitometer that measures the D-Max — density maximum, or maximum amount of toner — on the transfer belt.

As shown in the image below, the densitometer measures small patches of toner that are placed on the transfer belt in the gaps between the sheets of paper. The engine then uses these measurements to adjust the toner to developer ratio to ensure the D-Max stays consistent allowing for the potential for great color.



Inline Color Management

Color density control (CDC)

The CDC, which is located outside the engine in the relay unit, uses a densitometer to measure the density of the toner on the substrate being used for the job after it has been cooled and de-curled — the sheet is ready for finishing.

As shown in the image below, the CDC scans the color bars on several sheets of paper, measuring the density of the toner on each sheet. By measuring the toner density on the sheet once it's cooled and de-curled, the device is able to get a true measurement of the color output on the substrate being used for the current job, unless the operator chooses to use a different substrate.

Color density control: IQ-501 vs RU

			IQ-501	RU (Relay Unit)	
Number of sheets		Create	2 sheets	11 sheets	
	Color density control	Correct	2 sheets	9 sheets (precise) 3 sheets (standard)	
	Each paper type color adjustment		4 sheets	3 sheets	
Reading device	Color density control		Scanner unit /2	Densitometer	
	Each paper type color a	djustment	Scanner unit /2 & spectrophotometer (adjusts automatically)	Densitometer of RU External spectrophotometer (adjust manually)	

Note: Color Density Control (CDC) - post fusing in either the relay unit (RU) or IQ-501.

Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

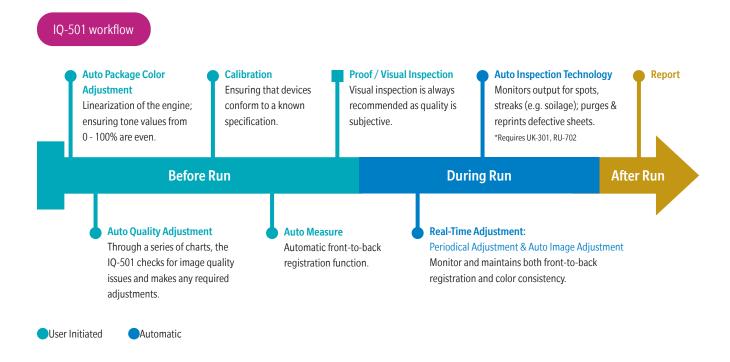
Inline Color Management

Intelligent quality optimizer IQ-501

With the IQ-501 Intelligent Quality Optimizer you are be able to: minimize variations in color and paper registration, reduce paper waste, minimize manual intervention and the need for service; our customers now have the ability to automatically maintain color and registration, in real-time, without the need for time consuming color management or highly trained employees. Which in turn means more sellable sheets, greater productivity, uptime and profit.

Images can be adjusted in real time even during job execution by printing registration marks for position adjustment and patches for tone adjustment on the paper cutting margin and scanning with the IQ-501. For jobs that do not have cutting margins, the IQ-501 measures charts with gradation patches and crop marks that are output every 100 sheets or more. And now that the AccurioPress C4080 series can adjust for trapezoidal and curve distortion the IQ-501 can execute real time adjustments for both vertical and horizontal trapezoid distortion correction -- also known as bow correction.

The IQ-501's abilities does not stop at just monitoring and adjusting registration and color in real-time. The IQ-501 can be configured with Auto Inspection Technology which detects spots, streaks, and now the accuracy of printed variable data, such as omissions and illegible bar codes or numerical data. This is down through the inspection unit, the UK-301, and an additional relay unit, which includes a purge tray for sheets deemed unacceptable. Any sheet purged is then automatically reprinted as well as listed in a report which shows all image quality issues found during the run. This ensures high quality and accurate output down to the page level, preventing missing defects such as spots, streaks, and errors in variable print output.



Superb Image Quality

Maintaining and adhering to traditional quality

S.E.A.D. X Technology stands for Screen-Enhancing Active Digital Technology. This is Konica Minolta's exclusive image processing technology. S.E.A.D. X Technology controls all aspects of the image creation process by enabling devices such as the AccurioPress C4080 series to achieve unmatched levels of productivity, image quality, and color stability.

Konica Minolta's unique Screen-Enhancing Active Digital system combines highly accurate exposure controls, precision pixel placement and advanced screening to achieve high quality and resolution. It also allows flexible processing and image smoothing control to match varying needs.

This is achieved through:

- Image Compression / Decompression Algorithm
- Edge Processing
- Improved Screen Quality
- Dot Position Control (DPC)

Image compression / decompression algorithm

As with all our competitors, we have a proprietary algorithm which efficiently compresses and decompresses images. With each iteration of SEAD X, the algorithm is improved allowing for Konica Minolta's print engines to output fantastic image quality efficiently and guickly.

Edge processing

The edge processing improves the appearance of characters no matter whether this concerns small fonts, thin characters or inverted text. Character quality and legibility are top of the class. A line-thinning function helps prevent thickening of characters and blurring of white characters. While a contour enhancement function reduces roughness on dot-background character edges and characters of intermediate colors.

Moreover, the edge processing function comes with the engine body. Therefore, unlike competing machines that perform the processing at the time of RIP, the AccurioPress C4080 series has the significant advantage that edge enhancement processing does not affect RIP speed.

High print resolution, 8-bit gradation, and font edge detection and processing technology developed by Konica Minolta achieve best-in-class character and thin line quality. Edge processing strength can be adjusted in 5 steps. This makes it easy to adjust the line width of small characters and the readability of dot-background outline characters.

Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Superb Image Quality

Edge processing examples

Offset Printing



These are 5pt characters

Line thinning: OFF Contour enhancement: OFF



Edge enhancement: OFF

The characters are somewhat thick, and the outline characters are slightly blurred. Moreover, the dot-background outline characters are also not clear.

Line thinning: Normal Contour enhancement: Normal



Standard conditions

Character quality is close to that of offset printing and dotbackground outline characters are sharp thanks to edge processing.

Line thinning: Strong Contour enhancement: Normal



Line thinning set to maximum

The characters are clearly thinner compared with offset printing. Line thinning can be set in 5 steps according to preference.

Line thinning: Normal Contour enhancement: Strong (+2)



Contour enhancement set to maximum

The contour of dot-background outline characters is enhanced and readability is improved compared with offset printing. Since small characters have a black outline, a quality check is required when using this setting.

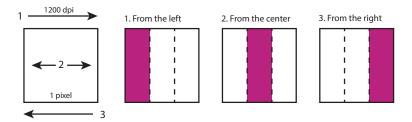
Superb Image Quality

Improved screen quality

Frequency Modulation (FM) screen processing fully leverages the print engines 3600 (equivalent) x 2400 dpi resolution by **enhancing resolution and granularity, eliminating jaggedness and moiré for smoother reproductions**. In addition, the optimal screen processing can also be selected to match the quality required for the output based on the dots and lines. As shown in the image below, there are six dot screens, three line screens and three FM screens provided so the right screen can be selected for each material and purpose.

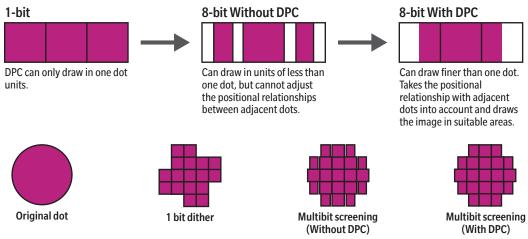
Dot position control

When printing texts and graphics, Konica Minolta's production print engines are able to achieve resolutions equivalent to 3600 dpi by 2400 dpi (native resolution: 1200 x 2400) by using Dot Position Control, or DPC. This is done by processing individual pixels of 1200 dpi by controlling the dot mapping at the left, center and right resulting in an increased resolution of approximately 3 times (3600 dpi equivalent).



DPC controls the printing of the dots in three drawing patterns according to the relationship of each dot to its neighbor and the dot generation pattern. This technology not only enables drawing of smoother outlines of lines and text, but also through screen processing it enables the reproduction of more precise gradations as seen below.

Illustration of dot generation with a multibit screening



Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Curl Correction

Real-time curl adjustment

Relay Unit RU-518m is equipped with a real-time curl adjustment function that enables curl adjustment even during printing.

- Real-time curl adjustment is possible
- Fine curl adjustment is possible
- Equipped with paper cooling function

nism [HM-103] ion capability ellation diffication capability on level hance r and exterior fans ism ction th the control panel

Humidifying decurling mechanism [HM-103]

- Static elimination
- Coated paper humidification capability
 - Roller pressure cancellation
- Coated paper/high-humidification capability
 - Variable humidification level
- Improved cooling performance
 - Hollow pipe + interior and exterior fans

Mechanical decurling mechanism

- Real-time adjustment function
 - Remote operation with the control panel of the main unit
- Improved curl correction
 - Belt + Smaller stroking roller diameter
 - Multi-stage winding path switch over

Simitri HDE

One of the Konica Minolta's print engine's definitive advantages is unsurpassed print/copy quality — an area in which Konica Minolta has long been recognized as an industry leader.



Since the 1970s, Konica Minolta has been investing heavily in toner technology to improve image quality, decrease running costs, and minimize environmental impact. By the year 2000, we had developed our own patented polymerization production process for toner called SimitriTM, which uses plant-based resources (Biomass). All four colors — cyan, magenta, yellow and black, use plant-based resources. In 2014, we took this revolutionary technology a step further by introducing Simitri HDE (High Definition Enhanced) toner.

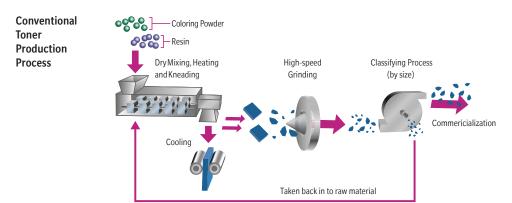
To understand Simitri HDE toner's advantages, let's take a look at how it's created.

Creating smaller, more uniform toner particles

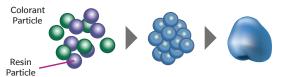
The goal of toner production is small, uniform particles because — the smaller the toner particles and the more uniform the shape, the finder the lines and sharper the image and text it can reproduce. Small size and uniform shape also improve half-tones' reproduction, resulting in more natural photos and higher quality illustrations.

The conventional pulverization process creates large, irregularly shaped toner particles due to high-speed grinding within the toner production cycle. After being heated, melted, and cooled, the plastic toner particles are blown against a wall and crashed into pieces. These pieces become the toner particles.

In Konica Minolta's Simitri HDE polymerized method, color pigments and raw materials composed of plastic are coupled through a chemical reaction to produce toner particles. This method produces smaller, more uniformly shaped particles of polymerized toner



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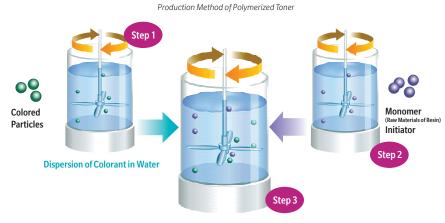


Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Simitri HDE

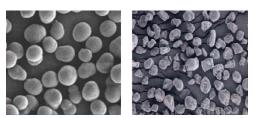
Konica Minolta creates Simitri polymerized toner through a process combining the following three steps.

- **In Step 1:** Color pigments are dispersed in water (aqueous solution).
- **In Step 2:** The resin molecules (monomer) are bonded in the water to create ultra-small resin particles approximately 100 nanometers in size about one ten-millionth of an inch.
- In Step 3: The color pigments and ultra-small resin particles are then chemically condensed and fused together.



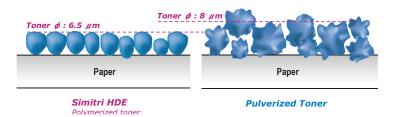
Polymerization Process

These microscopic images reveal the difference between conventional pulverized toner particles. The smooth, uniform particles of Konica Minolta Simitri HDE toner can be clearly seen.



Side-by-side photos of Simitri HD^E (left) and Pulverized Toner Particles (right).

The illustration above shows a particle size comparison: the average size (diameter or (phi)) of Simitri HDE toner particles is $6.5\mu m$ (micrometer = one-thousandth of a millimeter), whereas the average size of pulverized toner particles is $8\mu m$. The shape of Simitri HDE toner particles is more uniform than that of pulverized toner.

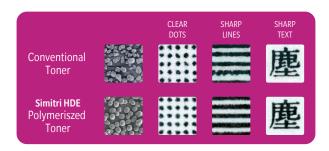


Side-by-side illustration of Simitri HDE (left) and Pulverized Toner (right) particles layered on paper.

Simitri HDE

Superb image quality and brilliant, vivid colors

Konica Minolta Simitri HDE toner's superb image quality begins with its ability to reproduce fine lines and small text more clearly and create halftones with smoother gradations. Because Simitri HDE toner particles are smaller and more uniform in shape, they can reproduce text without jagged contours and create print with brilliant sharpness.



This sharpness is even more noticeable when making copies because Simitri HDE toner particles create vivid colors closer to the original photo prints. Simitri HDE toner particles also reproduce a wider color gamut or a specified range of color. The smooth dispersion of color pigments results in color images with bright, vivid colors across a variety of hues, enabling Konica Minolta's print engines to reproduce a broader range of colors than standard offset printing equipment.

Simitri HDE toner features:

- Improved reproduction of bronze-red and skin tones
- Extended color gamut of magenta
- Granularity improved (specifically black smoother grayscale)
- Enhanced fade resistance, improved light resistance
- Lower melt point also contributes to enhanced productivity on heavier stocks

■ 3-dimensional hybrid toner particles

More accurate reds, less colour fading, enhanced halftones and more natural skin tones

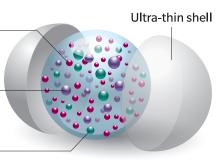
Functional polymer

Colorant

Higher image quality, reduced energy use and faster processing

Sharpmelt wax

Higher image quality and reduced energy use



Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Simitri HDF

Outstanding resistance to color fading

Due to the strong bonding of its color pigment particles, Simitri HDE toner is exceptionally resistant to color fading. With normal commercial printing, ultraviolet rays can sometimes fade yellow colors. Prints and copies produced with Simitri HDE toner can resist these ultraviolet rays more effectively and preserve their color quality far longer.

Side-by-side images of orginal and "after exposure" in both Simitri HDE toner (left) and Offset Printing (right)





After exposure The original

After exposure The original

The advantages of oil-less fusing

Konica Minolta technology adds another advantage to Simitri HDE toner. By including wax in the toner manufacturing process, we benefit from "oil-less fusing," making it unnecessary to apply silicone oil to the heater during the fusing process. This solves the problem of "white-line noise" caused by dust adhering to the optical system because of the oil's vapor. Since the fusing unit does not use fuser oil, its life is prolonged. This makes Konica Minolta's print engine more reliable, reducing maintenance and increasing uptime.

Konica Minolta adopts a special polymerization method in which wax is dissolved in the monomer (raw material of resin), then emulsified and dispersed into water (aqueous solution) to create particles. This cohesion and fusion of particles and color pigments make it possible to contain a large amount of wax evenly, yielding a polymerized toner that can fuse without oil.

The benefits of low-temperature fusing

In addition to oil-less fusing, Simitri HDE toner particles can also be fused at much lower temperatures than conventional pulverized toner particles. Low-temperature fusing reduces paper curling or jamming during the finishing process. Less paper curl means a thinner stack of prints or copies to be stapled or stitched — a significant advantage when finishing large quantities of documents.

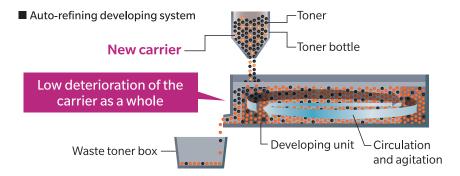
In conventional toner fuser processes that require higher fusing temperatures, thick paper can absorb heat while being fused and cause the fusing temperature on the roller to decrease. This will degrade the fusing ability of the toner to the paper, affecting image quality. With its ability to fuse to paper at a lower temperature, Simitri HDE toner enables Konica Minolta's print engines to handle a greater range of paper types in a wider range of thicknesses.

Fusing temperature and fusing pressure go hand in hand: lower the fusing temperature, and the fusing pressure can also be lowered. When the fusing pressure is lowered, even thin paper that would typically wrinkle will print more reliability when used in Konica Minolta's print engines.

Simitri HDE

AccurioPress C4080 series' Auto-Refining Developing System

Like its predecessor, the AccurioPress C3080 series, the AccurioPress C4080 series' toner contains the developer's carrier. The carrier refreshes the carrier in the developer through the "auto-refining developing system." This stabilizes the developer, ensuring the production of high-quality images. The addition of the carrier also helps increase uptime by decreasing the carrier's deterioration as a whole. This means longer duty cycles than similar class devices, reducing the frequency of developer replace and increasing uptime.

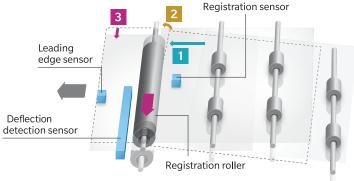


Advantages — AccurioPress C4080/C4070, AccurioPrint C4065

Registration Mechanism

A **high-precision registration mechanism** that combines a conventional paper-curvature detection/automatic adjustment mechanism with an intermediate transport roller nip release mechanism and a skew adjustment mechanism for the registration unit. This achieves high precision front-to-back registration accuracy.

■ Registration Swing mechanism



- 1 Paper conveyed in misaligned orientation
- The paper position is corrected by reversing the roller and pressing it against the paper.
- When the deflection detection sensor detects paper offset, the registration roller shifts sideways to correct the alignment.

Vacuum Feed Paper Deck

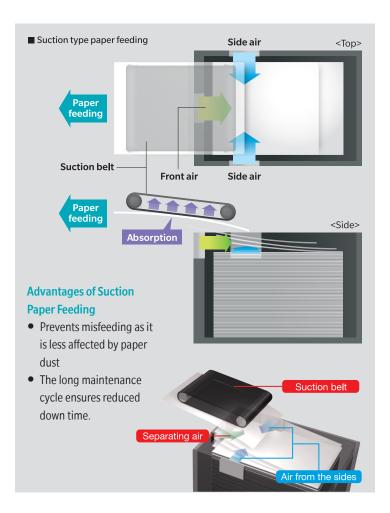
Use of air suction system

Air suction belt feeding is used for **PF-707m**. In addition to side air with the air assist function, air is blown from the front to cause the paper to adhere to the suction belt and be conveyed.

More stable paper feeding, even for thick paper and coated paper, is achieved through optimal air control according to the paper type, and through improvement of the crimping area during belt feeding.

Compared with conventional paper transport systems, this air suction system improves small-sized paper transport performance. In addition, the ability to handle thin paper such as coated paper of 64 gsm is improved.

The air suction system reliably feeds thick paper presenting a heavy paper feeding load as well as coated paper.





5. Demo Script

This section provides an example demo script for the AccurioPress C4080/C4070 and AccurioPrint C4065



Demo Script — AccurioPress C4080/C4070, AccurioPrint C4065

The following is an example of a demo script for the AccurioPress C4080 series. This script provides a general overview of the new features as compared to the C3080 series. Feel free to use any or all of this script for your demos. Keep in mind this script is a general overview, and for a demo to be effective, you must customize it to fit the customer's needs.

The AccurioPress C4080 series, an all-in-one print manufacturing powerhouse featuring advanced automation and unmatched versatility. This new press offers ease of use in one compact, affordable footprint, opening up new opportunities to expand your business.

AccurioPress C4080/C4070

The AccurioPress C4080 series includes both the C4080 and C4070 and delivers output at lightning speeds of 80 and 70 prints per minute and maintains rated speeds up to 216 gsm. Coupled with 2-sided printing of sheets up to 34 inches in length, envelope printing with the standard fuser at half-rated speeds, or full-speeds with a dedicated envelope fuser, and a comprehensive array of finishing options, the AccurioPress C4080 series opens up a new world of opportunities for small to medium commercial print and graphic communications providers.

The C4080 series output resolution is 3600 (equivalent) by 2400 dpi with 8 bit processing, an increase from its predecessor. The AccurioPress C3080 series output resolution of 3600 (equivalent) by 1200 dpi. With Konica Minolta's Simitri HDE toner and industry-leading image processing technology, the C4080 series continues to provide beautiful image quality for even the most demanding customer.

Productivity starts with the paper input. The AccurioPress C4080 series has several paper feed configurations available to meet the needs of your business. This press supports coated and uncoated media from 62 - 360 gsm in weight, ranging in size from just under 4 by 6 inches to 13 by 19.2 inches, and 13 by 51 inches when configured with a long sheet input option. Plus, several paper feed options can handle envelopes.

The C4080 is configurable with up to 3 vacuum fed paper feed units that hold up to 13,890 sheets at 80 gsm. Add the additional 1,500 sheets that the two main engine trays hold; you get a maximum capacity of 15,390 sheets. For runs requiring sheets longer than 19.2 inches, there is a large capacity air-assisted paper feed unit to support sheets up to 30 inches in length at up to 300 gsm. This large capacity paper feed unit can hold up to 1,000 sheets of 128 gsm media. There is also a bypass tray available to handle all sizes of media up to 13 by 51 inches.

Put all this together with the C4080 series's ability to print envelopes with the standard fuser at half-rated speeds or full-rated speeds with a dedicated envelope fuser. And the ability to simplex sheets up to 51 inches in length and auto-duplex sheets up to 34 inches in length, you get one productive, versatile device. This allows print service providers the ability to seamlessly transition from one print job to the next and to offer new types of digitally printed output such as 8-panel, double gate folded brochures, book jackets, short run envelopes and more. These types of products were once only possible with offset printing.

Demo Script — AccurioPress C4080/C4070, AccurioPrint C4065

Options

The AccurioPress C4080 brings automation to a new level starting with the new IM-101 Intelligent Media Sensor. This optional external media detection sensor takes the guesswork out of identifying media. Especially that media that may be sitting out and no longer have the product label attached. The IM-101 Intelligent Media Sensor has sensors for paper weight, surface and thickness. It measures the media's weight and type, and provides the operator with a list of suggested media based on paper type and weight, and matching paper profiles. This ensures that the media is properly set, guaranteeing the best output quality.

Bringing quality automation to a new level is the IQ-501 Intelligent Quality Optimizer, a closed-loop inline quality management system. Not only does the IQ-501 significantly reduce the amount of time and skill required to set up a digital press before a run, but it also monitors and maintains color consistency and front-to-back registration during an entire print run.

As an extra set of eyes, the IQ-501's Auto Inspection Technology can also monitor for image quality defects such as spots, streaks, or missing images and alert the user of any errors. With the addition of Variable Data Inspection for Barcodes and Serial Numbers, the IQ-501 can generate a data file using scanning technology to read each sheet to ensure the variable data job is printed in its entirety.

The IQ-501 ensures high-quality output from the first sheet out to the last while decreasing the amount of waste, plus allowing operators to multitask and be more productive as the device does not need to be continuously monitored. Which, in turn, means more sellable sheets, greater productivity, increased uptime, and profit.

The AccurioPress line of digital presses features numerous finishing options for producing professional-quality full-bleed saddle stitch booklets, perfect bound and wire bound books, as well as options for stapling, punching, folding, and stacking. And unique to Konica Minolta is the inline trimming unit, the TU-510.

Introduced with the AccurioPress C14000 series, the TU-510 inline trimmer unit is available with the AccurioPress C4080 series. Full-bleed, finished output, ready-to-box, has never been easier. This revolutionary inline trimmer offers advanced automation delivering fully-trimmed, full-bleed brochures, fliers, postcards, business cards, and more directly to the output tray. This inline trimmer unit creates sophisticated, professional documents ready for delivery to your customer in the time it takes to print them.

Cutting and top and bottom slitting come standard on the TU-510 trimmer unit. This inline finishing unit is also configurable with options for valley and mountain creasing, perforation in both directions, and options for card cutting such as center slitting and a business card catch tray. A modular design, these units can easily be exchanged depending on the output needed. Plus, with the additional option supporting long sheets, the TU-510 can support the delivery of fully-trimmed and creased long sheets of up to 51 inches to the output tray.

Demo Script — AccurioPress C4080/C4070, AccurioPrint C4065

Think about it. The C4080 series' ability to print 2-sided sheets up to 34 inches and the TU-510's finishing abilities means fully-trimmed and creased 8-panel brochures can be delivered to the output tray. They only need folding and are ready to be boxed and delivered. No other press in its class can do that.

All these options give you the ability to produce fully-finished, high quality, ready to be boxed output quickly and easily without skilled operators -- equaling increased uptime, productivity, quality, and profit.

And for print service providers looking for high-volume flat sheet output, the LS-507 large-capacity stacker is available. This new stacker can hold up to 6,000 sheets of 80 gsm media and can be unloaded up to 3,000 sheets at a time while the engine is running, allowing for long uninterrupted runs.

DFEs

The AccurioPress C4080 series has several digital-front ends to choose from, the first being Konica Minolta's image controller, the IC-609. Perfect for print service providers looking for centralized job management at the control panel or a workstation, the IC-609 offers an intuitive interface and comes standard with job and color management utilities at no additional cost. This system offers powerful job processing at a very economical price.

Konica Minolta continues our partnership with EFI with two Fiery image controller options, the IC-317 server based controller and the bustled IC-419. An excellent fit for print service provides looking to manage jobs across multiple devices in one centralized place. Both controllers take advantage of EFIs powerful color and workflow solutions to integrate with existing equipment and meet any workflow needs.

AccurioPrint C4065

With all this talk about the AccurioPress C4080 and C4070, I do not want to forget the new AccurioPrint C4065. Replacing the AccurioPrint C3070L, the C4065 runs at 65 color prints per minute and 80 black and white prints per minute. The C4065 supports the same media weights, types, sizes as the C4080 and C4070; this includes media up to 360 gsm in weight, auto-duplexing sheets up to 34 inches in length, and printing envelopes with the standard fuser at half rated-speeds. The IC-607 Konica Minolta image controller and EFI's IC-419 are available for this press. And while there are some limitations to finishing options, the AccurioPrint C4065 is configurable with an all-in-one finisher allowing for saddle stitch booklets, stapling, and punching, making it a great fit for smaller print for pays, CRDs, marketing departments or any office environment requiring great color, advanced media capabilities and more..

Demo Script — AccurioPress C4080/C4070, AccurioPrint C4065

Conclusion

The versatility, productivity, and advanced automation of the AccurioPress C4080, C4070, and AccurioPrint C4065 will provide you with opportunities for new revenue streams and increased profits. An all-in-one print manufacturing powerhouse, the AccurioPress C4080 series is an easy choice for any business.

Color Production Print - Device Basics Comparison

		AccurioPress AccurioP				AccurioPrint			
		C14000	C12000	C6100	C6085	C4080	C4070	C4065	
Monthly Duty Cycle		2,500,000	2,200,000	1,800,000	1,530,000	864,000	758,000	702,000	
Productivity	(LTR)	138.1	118.4	100	85	80	70	65	
Rated-Speed	S	All weights		All w	All weights		Up to 216 gsm		
Resolution		3600 (equiv	3600 (equiv.) x 2400 dpi		3600 (equiv.) x 1200 dpi		3600 (equiv.) x 2400 dpi		
Paper Size ——	Min.	3.94" x 5.5" (100 x 139.7 mm)		3.94" x 5.5" (100 x 139.7 mm)		3.94" x 5.83" (100 x 148 mm)			
	Max.	13" x 19.2" (330.2 x 487.7 mm)		13" x 19.2" (330.2 x 487.7 mm)		13" x 19.2" (330.2 x 487.7 mm)			
Paper Weight		52 - 450 gsm		52 - 400 gsm		62 - 300 gsm			
_	Simplex	51" (1300 mm)		51" (1300 mm)		51" (1300 mm)			
Banner Sheets	Duplex	35.4" (900 mm)		30" (762 mm)		34" (864 mm)			
Sneets	Weight	Up to 300 gsm		Up to 300 gsm		Up to 300 gsm			
Envelopes	w/ Std Fuser	Yes, 1/2 speed		No		Yes, 1/2 speed			
	Opt. Fuser	EF-106		EF-104		EF-107			
DFE Options		EFI IO Creo I	C-319 C-318 IC-316 C-610	EFI IC-315 EFI IC-313 Creo IC-314 KM IC-604		EFI I	EFI IC-317 EFI IC- EFI IC-419 KM IC- KM IC-609		
Dimensions (W x D x H)			5.7" x 63.8" x 1620 mm)	-	'.4" x 51.9" x 1319 mm)	31.5" x 35.6" x 42.4" (800 x 903 x 1076 mm)			
Approximate Weight		1234.6 lb	s (560 kg)	970 lbs (440 kg) 696.7 lbs (31		696.7 lbs (316 k	g)		

Revisions — AccurioPress C4080/C4070, AccurioPrint C4065

Date	Revision
02/01/2021	Corrected sheet capacity for FS-532 (page 9)
	Corrected explanation of toner (page 12)

PARTNERSHIP.

Konica Minolta can help give shape to your ideas and partner with you to achieve your corporate objectives. Contact us to realize opportunities in:

INFORMATION MANAGEMENT **IT SERVICES TECHNOLOGY**

Enterprise Content Management (ECM) Document Management

Automated Workflow Solutions

Business Process Automation Security and Compliance

Mobility

eDiscovery Services

Application Services Cloud Services IT Security Managed IT Services IT Consulting & Projects

Apple Managed Services

and Deployment

Managed Voice Services Technology Implementation

Office Multifunction Business Solutions Commercial and Production Printers **Industrial Printers** Wide Format Printers 3D Printers Scanners

Security Surveillance Systems

Laptops, Desktops and Computer Hardware Servers and Networking Equipment

Managed Print Services (MPS) Managed Enterprise Services

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