



KONICA MINOLTA

Giving Shape to Ideas



bizhub PRESS C70hc

The colour wizard

Production system bizhub PRESS C70hc



Pioneering technology, exceptional colours

Colour is of tremendous importance in today's world of information overflow and ultra-fast communication. Amazingly vivid colours will bring any message across – with that in mind Konica Minolta created an absolute innovation! This unique digital colour press with revolutionary High Chroma toner technology produces truly magnificent colours unlike any ever experienced before.

- Konica Minolta's extraordinary bizhub PRESS C70hc features the revolutionary HC toner with the singular ability to reproduce RGB colours more faithfully than any toner technology before. The bizhub PRESS C70hc has a colour space that comes very close to the sRGB gamut. This enhances the colour reproduction range considerably and creates colours on paper that are closer to the natural world, to originals and to monitor images than anything previously possible.
- Always striving to provide better quality faster and at competitive prices, creative professionals, graphic designers and specialists from the graphic arts industry as well as commercial printers and print providers will appreciate the unequalled performance of the bizhub PRESS C70hc. Konica Minolta's digital colour press matches its

RGB capabilities with the advantages of affordable access and versatile variable data processing – making this the perfect digital production solution for short-run printing within the tightest of deadlines.

- With a print speed of 71 colour pages per minute, the bizhub PRESS C70hc is a worthwhile and highly affordable investment that offers value-added printing at its best. Commercial printers, print providers and graphic arts professionals as well as end users like advertising agencies or retail chains, will benefit from the possibility to differentiate their performance, products and services from whatever else the market offers.



A boost to cross-media communication

At a time when sales, marketing and product messages are no longer communicated exclusively in print but also via the Internet and on mobile communication devices, professionals in the graphics sector have begun to switch their colour management from the traditional CMYK process to the more flexible RGB workflow. This offers a considerable advantage for cross-media communication: Its ability to adapt to a wide range of output formats much facilitates promoting a unified corporate and brand identity across widely differing communication platforms.

The unique HC toner on the innovative bizhub PRESS C70hc has been specifically developed to provide valuable support for RGB workflows. Its range of capabilities makes this the one-and-only solution for value-added printing applications:

- The bizhub PRESS C70hc's revolutionary HC toner produces unbelievably vivid and natural colours. Thanks to seamless integration with RGB colour workflows colour setup and colour conversion is fast and easy – colours will be printed virtually as shown on the monitor, following the WYSIWYG principle.
- The bizhub PRESS C70hc combines this exceptional colour quality with impressive media flexibility and comprehensive in-line finishing capabilities, demonstrating absolute competence for the production of the most diverse print products in short or longer print runs.
- Offering a choice of Konica Minolta, Fiery and Creo controllers, the bizhub PRESS C70hc meets the challenges of professional high-speed digital colour printing with optimised workflow solutions and delivers simply brilliant results.



The innovative digital technology of the bizhub PRESS C70hc is ideal for short-run and variable data printing; with its economic performance every run length, down to the individual photo book, becomes profitable. The range of conceivable applications is extensive and includes the production of direct mail pieces as well as marketing collateral. Computer graphics, brochures, business cards as well as labels will all benefit from production on the bizhub PRESS C70hc. The same applies to POS materials for stores, department stores, supermarket chains or similar. Photos and photo books in particular are perfect examples of how to use the wide colour space that can be achieved with the bizhub PRESS C70hc.



HC
toner

bizhub PRESS C70hc production system



Unequaled luminance, outstanding vividness

With the development of its revolutionary High Chroma toner technology, Konica Minolta has done pioneer work that is likely to create a new demand and shape a new market. The remarkable performance of the bizhub PRESS C70hc is based on the HC toner that gives colours outstanding luminance and offers exceptional value for the production of the most diverse range of marketing and advertising collateral.

The HC toner is derived from Konica Minolta's toner technology Simitri® HD, and features much higher colour saturation than possible with the conventional CMYK process. It uses colour material which is closely associated with colour vividness. As a result, the CMYK toner colours are perceived by the human eye as significantly brighter.

The most important feature of the HC toner is its ability to reproduce a larger portion of the sRGB gamut than previously possible. As a consequence, the bizhub PRESS C70hc's gamut is extremely close to that of sRGB. The similarity of the gamut shape to sRGB makes colour conversion relatively easy. Thanks to such close sRGB coverage colours can be reproduced almost as they are displayed for example on a PC monitor.

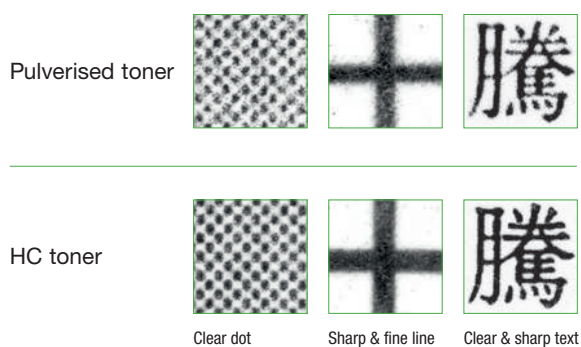




■ The HC toner is based on Konica Minolta's proprietary Simitri® HD (high definition) polymerised toner. In an extensive research and development process of several years, Konica Minolta created this unique toner to guarantee the outstanding image quality of its digital colour presses. Also after its introduction, the remarkable properties of Simitri® HD polymerised toner are continuously being refined and optimised – one of the aspects that lead to the development of the unique HC toner.

■ The HC toner is produced in a singular polymerisation process. The resulting toner particles are substantially smaller and have a more uniform shape than conventionally produced toners. With these minuscule, uniformly shaped toner particles the HC toner achieves an image quality second to none. Razor-sharp text and lines, and a smooth finish that rivals offset printing are just some of its characteristics.

➔ Precise reproduction of image and text



■ Additionally the HC toner technology offers great quality improvements for colour photos and illustrations and produces perfectly crisp and sharp prints at reduced consumption levels. The professional oil-free print finish allows handwriting on any document. In this way, impressively coloured direct mail pieces or POS materials in vivid colours can be created that attract readers and users, raise response rates and increase the likelihood of such brightly styled products being bought.

■ The HC toner conserves energy as it requires considerably lower fusing temperatures. This also means that it is very economic to use but nevertheless supports the processing of an impressive media range. At the same time, its eco-friendly manufacturing and printing processes generate less waste toner and reduced CO₂ emissions.

■ The bizhub PRESS C70hc is the perfect solution for professionals who strive to differentiate themselves, their products and services from their competitors, and who want to add value to on-demand printing.



Colour processing technologies



The bizhub PRESS C70hc feature the latest in Konica Minolta's very own, advanced colour processing technology. Innovations like S.E.A.D. II, ITbit technology, CRS, HC toner and Konica Minolta's "air-assist" paper feeding technology provide an unbeatable combination of outstanding quality and smooth processing, ensuring perfect results and highest reliability.

➔ S.E.A.D. II

Developed by Konica Minolta, S.E.A.D. II stands for „Screen-Enhancing Active Digital Process“ and combines an array of technical innovations to guarantee truly exceptional colour reproduction at top speed. S.E.A.D. II represents the second generation of Konica Minolta's advanced colour processing technology and includes these important capabilities:

■ 1,200 x 1,200 dpi x 8 bit print resolution

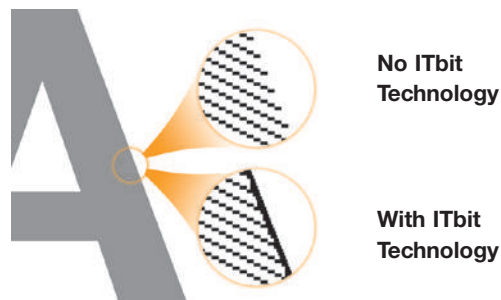
The impressive print resolution on the bizhub PRESS C70hc reproduces finest characters and thinnest lines to perfection. In combination with proprietary HC toner, this results in an almost offset-like print quality.

■ FM screen technology

Also thanks to the excellent resolution of 1,200 dpi, the bizhub PRESS C70hc provide additional screens for higher quality prints, enabling smoother and more realistic image reproductions that are a perfect match to print data. The newly adopted Frequency Modulated (FM) screen technology ensures smooth moiré- and jagged-free images.

■ ITbit technology

Outline processing improves the appearance of characters by thinning them so they do not appear fat. Contour processing helps to reproduce white characters on backgrounds with ideal proportions and reduces jagged edges of half-tone characters.





Powerful choice of controllers

To satisfy the diverse requirements of the most varied professional printing environments, the bizhub PRESS C70hc can be equipped with one of three different controllers:

- The external EFI controller IC-306 is a viable all-round player that supports the impressive system functionality with latest Fiery technology and provides an intuitive, user-friendly interface between operator and digital press.
- The external CREO controller IC-307 is the perfect solution for VDP applications (Creo VPS) and an ideal choice for hybrid prepress workflows. Proprietary Creo Colour Server technology supports the bizhub PRESS C70hc as robust workflow solutions with outstanding print quality and exceptional productivity
- The embedded Konica Minolta controller IC-601 offers affordable colour management as well as seamless integration with a wide range of Konica Minolta applications. The highlight of the IC-601 is its complete implementation into the bizhub PRESS C70hc with full panel integration of the controller operation.

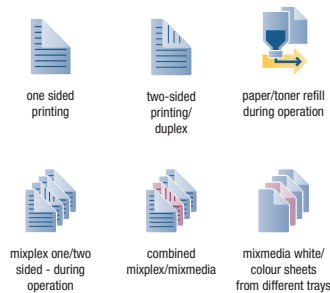


Ultimate versatility from start to finish

Professional finishing of the printed product is an integral part of any production run – and flexibility is the key! The bizhub PRESS C70hc can be equipped with the full range of entry level to highly versatile finishing options. Konica Minolta's colour production system accommodates all customer requirements, including numerous online punching and stapling options, a generous selection of folding functions and booklet creation.

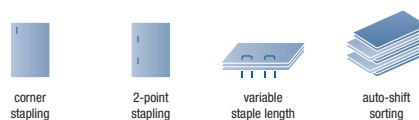
■ bizhub PRESS C70hc (main unit)

Professional finishing starts right inside the bizhub PRESS C70hc – a variety of advanced features ensures the production of sophisticated document formats. For example mixplex allows to combine single- and double-sided pages within one document. Mixmedia lets the user specify individual paper types from various trays on page-level. The combined mixmedia and mixplex function fully automates the production of complex one- and two-sided documents on different media.



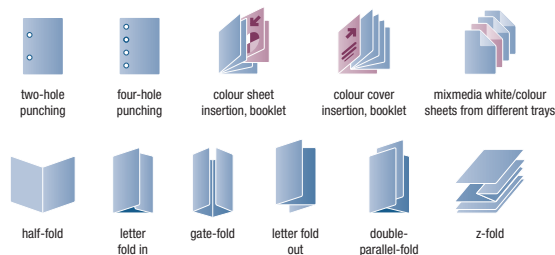
■ Stapling unit (FS-521)

Equipped with the FS-521 the bizhub PRESS C70hc provides multi-position stapling making this the perfect choice for the production of manuals, reports and other extensive documentation.



■ Folding and punching unit (FD-503)

The ideal choice for the production of mailings, flyers and more, the FD-503 is used to its best advantage in combination with the booklet maker, the staple finisher or the perfect binder. The folding and punching unit provides six different folding schemes.





■ **Multi (GBC) punching unit (GP-501)******

The multi punching unit offers high performance multi (GBC) punching of sheets at full system speed in preparation for offline spiral binding. Various available die sets correspond to the most popular punching schemes, such as metal-based coil (velo) and plastic (comb) binding.



Multi punching



■ **Stacking unit (LS-505)**

Equipped with the large capacity stacker unit, the bizhub PRESS C70hc are perfectly suited for integration into environments with existing finishing facilities, such as insertion or postage metering facilities. A big improvement to all near-line finishing work.



trolley stacker



shifted output



■ **Booklet making unit (SD-506)**

The booklet making unit provides tangible added value as ideal finishing equipment for all kinds of saddle stitched and trimmed booklets. It speeds up the online production of leaflets, brochures, catalogues and other marketing, sales and training materials.



colour sheet insertion, booklet****



colour cover insertion, booklet****



trimming



multi letter fold in



booklet (folding and saddle stitching)



multi half fold



■ **Perfect binding unit (PB-503)**

This is the finisher for inline production of all kinds of perfect-bound books. The functionality includes Z-fold insertion and insertion of pre-printed colour covers and sheets. Book binding is possible for books with up to 30 mm spine width and includes inline cover trimming. The integrated cover tray has a capacity for up to 1,000 sheets; and the perfect bound books are output into a trolley stacker.



perfect binder



perfect binder z-fold



perfect binder colour cover insertion



perfect binder colour sheet insertion



* optional post inserter (PI-502) and punch kit (PK-512/513) available, ** requires PK-512/513, *** requires PI-502, **** requires RU-506, ***** requires FD-503

System configurations

The bizhub PRESS C70hc excels with an amazing modularity that provides an impressive choice of system configurations. With several different product versions almost any imaginable combination is covered, offering complete customisation and answering the most specific customer demands.

System DSF

The system for brochures and direct mailings

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- Numerous punching, folding and stapling possibilities
- Saddle stitching and booklet making for up to 50 sheets/200 images
- Stapling of up to 100 sheets with variable staple length



F S D

System L

The system for labels and marketing collateral

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- Toner and paper refill "on the fly"
- Up to 5,000-sheet stacking capacity
- Trolley mounted paper stacker



L

System F

The system for corporate documents and direct mailings

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- 3,200 sheets paper output capacity
- Up to 300 gsm (from PF-602 lower tray)
- Toner and paper refill "on the fly"
- Stapling of up to 100 sheets with variable staple length



F

System SB

The system for perfect bound books and booklets

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- Saddle stitching and booklet making for up to 50 sheets/200 images
- Book binding for up to 30 mm spine width with hot melted glue process
- Post insertion of cover sheets from various sources and in-line cover trimming



B S



System DLB

The system for flyers, existing finishing environments and perfect bound books

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- Numerous punching and folding possibilities
- Up to 5,000-sheet stacking capacity
- Trolley mounted paper stacker
- Book binding for up to 30 mm spine width with hot melted glue process
- Post insertion of cover sheets from various sources and in-line cover trimming



B L D

System LSF

The system for existing finishing environments, all kinds of booklets and reports

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- Up to 5,000-sheet stacking capacity
- Trolley mounted paper stacker
- Saddle stitching and booklet making for up to 50 sheets/200 images
- Stapling of up to 100 sheets with variable staple length



F S L

System GLF

The system for corporate documents, existing finishing environments and reports

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 7,500 sheets paper input capacity
- Up to 300 gsm (from PF-602 lower tray)
- GBC multi punching with various customer replaceable die sets
- Up to 5,000-sheet stacking capacity
- Trolley mounted paper stacker
- Stapling of up to 100 sheets with variable staple length



F L G

F	Multi-position stapling (FS-521)
S	Booklet making (SD-506)
D	Folding & punching (FD-503)
G	Multi (GBC) punching (GP-501)
L	Large-capacity stacking (LS-505)
B	Perfect binding with trolley stacking (PB-503)



KONICA MINOLTA



Adobe PostScript® 3™



Technical specifications

Printer specifications

Print speed A4
Up to 71 ppm
Print Speed A3
Up to 38 ppm
Print resolution
1,200 x 1,200 dpi x 8bit
Max.: 1,200 x 3,600 dpi equivalent
Gradations
256 gradations

System specifications

Paper weight
64–256 gsm, up to 300 gsm
Duplex unit
Non-stack type, 64–300 gsm
Paper sizes
A5–A3+ (330 x 487 mm)
Maximum image area
321 x 480 mm
Paper input capacity
Max.: 7,500 sheets
Main unit: up to 1,500 sheets
PF-602: up to 6,000 sheets
LU-202: up to 2,500 sheets
Paper output capacity
Max.: 13,600 sheets
Stacking unit with trolley: 5,000 sheets
Large capacity tray: 3,000 sheets
Per sub tray: 200 sheets
Main unit dimensions (W x D x H mm)
760 x 992 x 1076 mm
Main unit weight
356 kg (only main unit)

Controller specifications

IC-306 external EFI Fiery controller
CPU
Intel® Core2 Quad @ 2.66 GHz
RAM
2 GB high-speed memory
HDD
160 GB SATA hard drive
Interface
Ethernet (10/100/1000-Base-T)
File Formats
Adobe® PostScript® Level 1, 2, 3
Adobe® PDF 1.4, 1.5, 1.6, 1.7;
PDF/X-1a, 3;
EPS(option); TIFF(option); TIFF/IT(option);
JPEG(option); PPML; Creo VPS compatible
Fiery® FreeForm™ v1/Fiery® FreeForm™ v2.1
Client Environments
Windows® 7/2000/XP/Vista™
Windows® Server 2003 / 2008
Macintosh® OSX (10.3.9 or later)
Intel Macintosh OSX (10.4 or later)
IC-307 external Creo controller
CPU
Intel® Core i7 @ 2.8 GHz

RAM
2 GB system memory
3 GB image memory
HDD
2x 500 GB system disc
2x 500 GB image disc
Interface
Ethernet (10/100/1,000-Base-T)
File Formats
Adobe PostScript 1, 2, 3;
Adobe PDF 1.3, 1.4, 1.5, 1.6, 1.7;
PDF/X-1a; EPS; TIFF(except for 16 bit tiff);
TIFF/IT; JPEG (except for Progressive JPEG
and JPEG 2000);
CT/LW
Creo Variable Print Specification (VPS)
PPML

Client Environments
Windows® 7/XP/Vista™
Windows® Server 2003/2008
Macintosh® OSX up to 10.6 (64bit)
IC-601 internal Konica Minolta controller

CPU
Intel® Core2 Duo @ 2.8 GHz
RAM
4 GB high-speed memory

HDD
2x 250 GB SATA disc space
Interface
Ethernet (10/100/1,000-Base-T)

File Formats
Adobe PostScript 3;
PCL 5c/6;
Native PDF; PDF 1.7; PDF/X-1a, X-3
EPS; TIFF, TIFF/IT; JPEG;
PPML

Client Environments
Windows® 2000/XP/Vista™/7
Windows® Server 2003/2008
Macintosh® OSX (10.4.x to 10.6.x)

Accessories

Large capacity tray LU-202
1 magazine
Paper capacity: up to 2,500 sheets
Paper weight: 64 to 300 gsm
Standard paper sizes: B5–SRA3
Min. paper size: 210 x 182 mm
Max paper size: 330 x 487mm

Paper feed unit PF-602
2 magazines
Paper capacity: up to 6,000 sheets
Paper weight: 64–300 gsm (lower tray)
Standard paper sizes: B4–SRA3
Min. paper size: 100 x 148 mm (lower tray)
Max. paper size: 330 x 487 mm

Folding and punching unit FD-503
Pre-printed sheet insertion (PI): 2 PI trays for
500 sheets each
Punching (2 and 4 hole)
Folding (half-fold, z-fold, gate-fold, letter fold in,
letter fold out, double-parallel-fold)
Sub tray for up to 200 sheets

Multi (GBC) punching unit GP-501
Multi punching of A4 sheets
User replaceable die sets for: velo bind,
plastic comb, wire bind, colour coil, pro click
Paper weight: 75–216 gsm
Booklet making unit SD-506
Booklet making of up to 50 sheets (200 images)
Saddle stitching, trimming
Output tray for up to 50 booklets
Multi letter fold in (up to 5 sheets)
Multi half fold (up to 5 sheets)

Stacking unit LS-505
Up to 5,000 sheets stacking capacity
Trolley mounted stacker
Auto-shift stacking
Sub tray for up to 200 sheets
Paper clamp mechanism

Perfect binding units PB-503
Hot melt glue binding system
Integrated 1-side trimming of cover sheets
Books from A5 up to A4+ (307 x 221 mm)
Books from 10 sheets up to 30 mm spine width
Cover paper tray for up to 1,000 sheets
Sub tray for up to 200 sheets
Book stacking capacity of up to 3,300 sheets
2 stacks

Stapling unit FS-521
Stapling of up to 100 sheets
2-point and corner stapling
Variable staple length (cutting mechanism)
Output for up to 3,000 sheets
Sub tray for up to 200 sheets
Auto-shift sorting and grouping

Humidifier unit HM-102
Humidification decurler

- All specifications relating to paper capacity refer to A4 size paper of 80 gsm quality.
- All specifications relating to scanning, copying or printing speeds refer to A4 size paper that is scanned, copied or printed crosswise in multi-page, simplex mode.
- The support and availability of the listed specifications and functionalities varies depending on operating systems, applications, network protocols as well as network and system configurations.
- Some of the product illustrations contain optional accessories.
- Specifications and accessories are based on the information available at the time of printing and are subject to change without notice.
- Konica Minolta does not warrant that all specifications mentioned will be error-free.
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