



KONICA MINOLTA

Giving Shape to Ideas



bizhub PRO C70hc

The colour wizard

Production system bizhub PRO 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 PRO C70hc features the revolutionary HC toner with the singular ability to reproduce RGB colours more faithfully than any toner technology before. The bizhub PRO 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 PRO 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 PRO 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 PRO 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 PRO 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 PRO 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 PRO 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 PRO 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 PRO 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 PRO C70hc.


HC
toner

bizhub PRO 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 PRO 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 PRO 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.



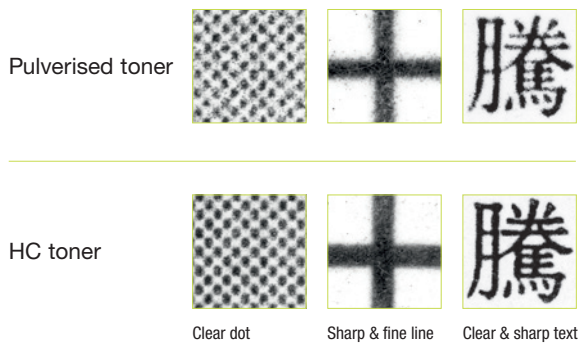


■ The HC toner is based on Konica Minolta's proprietary Simitri® HD (high definition) polymerised toner. In an extensive research and development process of several years, Konica Minolta created this unique toner to guarantee the outstanding image quality of its digital colour presses. Also after its 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 PRO 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 PRO 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

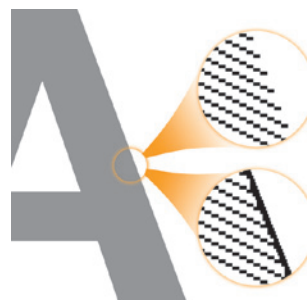
The impressive print resolution on the bizhub PRO C70hc reproduces finest characters and thinnest lines to perfection. In combination with proprietary HC toner, this results in an almost offset-like print quality.

■ FM screen technology

Also thanks to the excellent resolution of 1,200 dpi, the bizhub PRO 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.

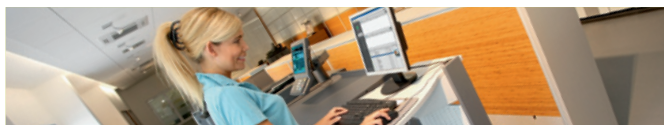
■ ITbit technology

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.



No ITbit Technology

With ITbit Technology



Powerful choice of controllers

To satisfy the diverse requirements of the most varied professional printing environments, the bizhub PRO 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 pre workflows. Proprietary Creo Colour Server technology supports the bizhub PRO 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 PRO C70hc with full panel integration of the controller operation.



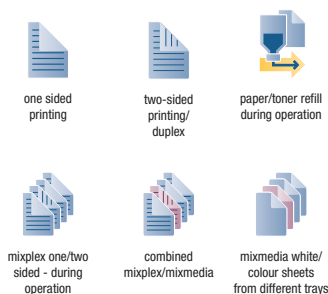


Ultimate versatility from start to finish

Professional finishing of the printed product is an integral part of any production run – and flexibility is the key! The bizhub PRO 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 PRO C70hc (main unit)

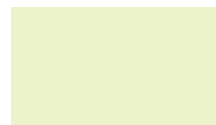
Professional finishing starts right inside the bizhub PRO C70hc – a variety of advanced features ensures the production of sophisticated document formats. For example mixplex allows to combine single- and double-sided pages within one document. Mixmedia lets the user specify individual paper types from 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.



■ Paper feed unit (LU-202)

Equipped with the large capacity cassette LU-202 the bizhub PRO C70hc can be loaded with up to 4,250 sheets of paper; and with air assist paper feeding and optional dehumidifier it is capable to print on various types of media.





Paper feed unit (PF-602)

The paper feed unit PF-602 increases the paper input capacity to 7,500 sheets. Its air-assist paper feeding and optional dehumidifier further enhance the media flexibility of the bizhub PRO C70hc.



Relay unit RU-509

The relay unit RU-509 cools prints down for immediate finishing and is equipped with a zig-zag decurler for smooth and straight prints. By adding the optional humidification decurler the performance can be further enhanced.



Staple finisher (FS-531)*

This entry level finisher is the ideal choice for the production of marketing collateral and corporate documents on the bizhub PRO C70hc.



Booklet finisher (FS-612)*

Upgrading the bizhub PRO C70hc with the booklet finisher will automate the production of booklets and brochures, providing a convenient and productive in-line half-fold and saddle-stitching functionality.



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



System configurations

The bizhub PRO 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 1

The system for corporate documents

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- Up to 300 gsm (from bypass tray)
- Stapling of up to 50 sheets
- Auto-shift stacking
- Post insertion
- Output capacity up to 3,100 sheets
- Optional punching



System 2

The system for marketing collateral and direct mailing

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- Up to 300 gsm (from bypass tray)
- Booklet making up to 20 sheets
- Stapling of up to 50 sheets
- Centre fold and Letter fold in
- Auto-shift stacking
- Post insertion
- Output capacity up to 2,600 sheets
- Optional punching



System 3

The system for corporate documents and marketing collateral

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 4,250 sheets paper input capacity
- Up to 300 gsm (from LU-202 or by pass tray)
- Stapling of up to 50 sheets
- Auto-shift stacking
- Output capacity up to 3,100 sheets
- Optional punching





System 4

The system for brochures

- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 4,250 sheets paper input capacity
- Up to 300 gsm (from LU-202 or bypass tray)
- Booklet making up to 20 sheets
- Stapling of up to 50 sheets
- Centre fold and Letter fold in
- Auto-shift stacking
- Post insertion
- Output capacity up to 2,600 sheets
- Optional punching



System 5

The system for direct mailings and brochures

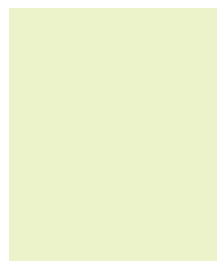
- 60/71 full colour A4 pages per minute print performance
- Duplex as standard
- Highest image quality
- 4,250 sheets paper input capacity
- Up to 300 gsm (from LU-202 or bypass tray)
- Stapling of up to 50 sheets
- Auto-shift stacking
- Post insertion
- Output capacity up to 3,100 sheets
- Optional punching



System 6

The system for corporate documents and brochures

- 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)
- Booklet making up to 20 sheets
- Stapling of up to 50 sheets
- Centre-fold and Letter-fold in
- Auto-shift stacking
- Output capacity up to 2,600 sheets
- Optional punching





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

Gradients

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

Humidifier unit HM-102

Humidification decurler

Booklet finisher FS-612

Booklet making for up to 20 sheets (80 images)
2-point and corner stapling
Stapling up to 50 sheets
Centre fold and letter fold in
Auto-shift sorting and grouping
Output for up to 2,500 sheets
Sub tray for up to 100 sheets

Staple finisher FS-531

2-point and corner stapling
Stapling up to 50 sheets
Auto-shift sorting and grouping
Output for up to 3,000 sheets
Sub tray for up to 100 sheets

Post inserter PI-502

(Option for FS-612/FS-531)
Pre-printed sheet insertion
2 PI trays for 200 sheets each

Punch kit PK-512

(Option for FS-612/FS-531)
Punching (2 and 4 holes selectable)

Punch kit PK-513

(Option for FS-612/FS-531)
Punching (4 holes)

- 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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