



KONICA MINOLTA

The essentials of imaging



bizhub PRO C65hc

The colour wizard



Production system bizhub PRO C65hc



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 C65hc features the revolutionary HC toner with the singular ability to reproduce RGB colours more faithfully than any toner technology before. The bizhub PRO C65hc 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 C65hc. 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 65 colour pages per minute, the bizhub PRO C65hc 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.

bizhub PRO C65hc 





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 C65hc 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 C65hc'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 C65hc 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 Fiery and Creo controllers, the bizhub PRO C65hc 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 C65hc 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 C65hc. 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 new colour space that can be achieved with the bizhub PRO C65hc.



HC
toner

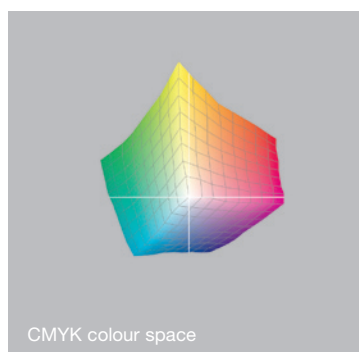


Unequalled luminance, outstanding vividness

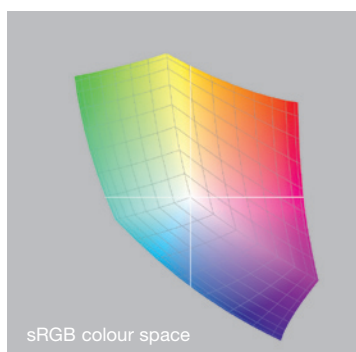
With the development of its revolutionary High Chroma toner technology, Konica Minolta has done pioneer work that is likely to create a new demand and shape a new market. The remarkable performance of the bizhub PRO C65hc is based on the HC toner that gives colours outstanding luminance and offers exceptional 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 completely new 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.

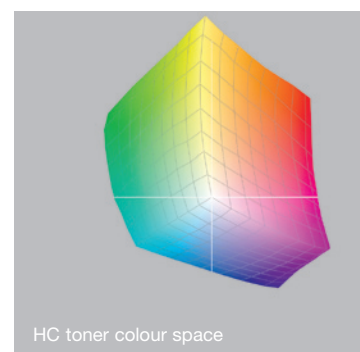
The most important feature of the HC toner is its ability to reproduce a larger portion of the sRGB gamut than previously possible. As a consequence, the bizhub PRO C65hc's gamut is extremely close to that of sRGB. The similarity of the gamut shape to sRGB makes colour conversion relatively easy. Thanks to such close sRGB coverage colours can be reproduced almost as they are displayed for example on a PC monitor.



CMYK colour space



sRGB colour space



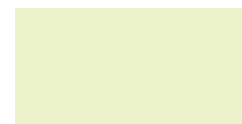
HC toner colour space

The HC toner colour space is much closer to the sRGB colour space than that of conventional toner. This makes the sRGB to CMYK conversion easy for the bizhub PRO C65hc.

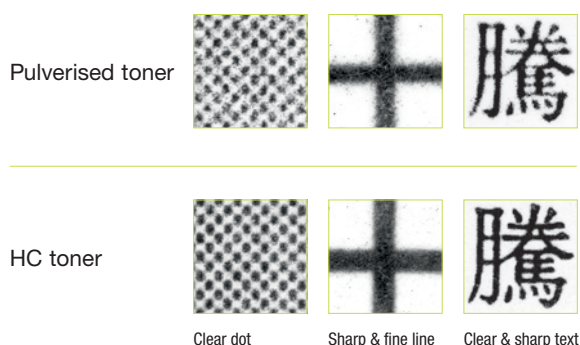


■ The HC toner is based on Konica Minolta's proprietary Simitri® HD (high definition) polymerised toner. In an extensive research and development process of several years, Konica Minolta created this unique toner to guarantee the outstanding image quality of its digital colour presses. Also after its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

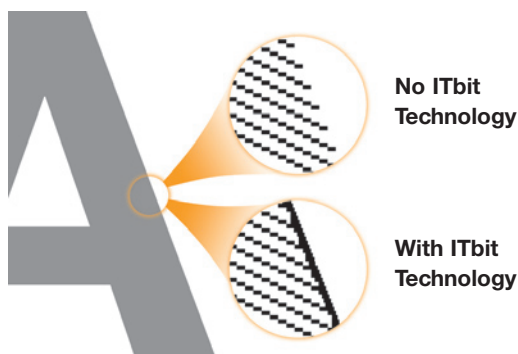
■ The bizhub PRO C65hc is the perfect solution for professionals who strive to differentiate themselves, their products and services from their competitors, and who want to add value to on-demand printing.



Colour processing technologies

The bizhub PRO C65hc features Konica Minolta's very own advanced colour processing technology. S.E.A.D. stands for „Screen-Enhancing Active Digital Process“ and combines an array of technical innovations to guarantee truly exceptional colour reproduction at top speed. To obtain highest precision, Konica Minolta's fast colour engine has been equipped with a dual-beam laser unit and HI-PER ASICs (high-performance image processing application-specific integrated circuits). Additional quality features and technological innovations within the S.E.A.D. concept are:

- Dot Position Control for superb image reproduction and fine lines and text
- Multi-bit screening for extremely natural reproduction of gradations
- ITbit technology for precise slim text, reversed text and outlines
- CRS technology to monitor and adjust engine conditions constantly for stabilisation of output quality



Ultra-smooth paper processing

The bizhub PRO C65hc features fast and ultra-smooth paper processing: Where required, an optional heating unit inside the paper magazine dries paper stock before printing. Konica Minolta's "air-assist" paper feeding technology separates sheets and feeds them individually – a process that double-feed detection sensors make even more reliable! Thanks to a specific printing and developing process, fusing temperatures are low, resulting in a considerable increase in media flexibility. Each individual print is cooled and de-curved before output giving optimum results.



High availability

Round-the-clock availability of equipment is essential for commercial printers and print providers. Downtime of output devices must be minimised, productivity maximised and routine maintenance planned in accordance with production schedules. The CS Remote Care concept is the basis to maximise system availability of the bizhub PRO C65hc. The state-of-the-art machine-to-machine communication (M2M) between the bizhub PRO C65hc and the Konica Minolta service organisation with its remote connection relays all relevant system data in real time, advising the service side early of routine maintenance or any other required intervention, e.g. to rectify a technical problem.



Powerful choice of controllers

→ IC-304 Plus – Colour, productivity, precision

In close cooperation Creo and Konica Minolta created the IC-304 Plus external print controller. Based on the Creo Color Server technology the print controller was developed exclusively for Konica Minolta's digital colour production devices. Out-of-the-box colour and outstanding image quality, amazing ease of operation, an innovative feature set and powerful printing performance – with these characteristics the IC-304 Plus print controller is perfectly suited to the complex demands and varied requirements of any professional production environment.

Equipped with the IC-304 Plus print controller the bizhub PRO C65hc provides outstanding print quality, impressive media flexibility and comprehensive in-line finishing capabilities – meeting the challenges of professional high-speed digital colour printing with optimised workflow solutions and simply brilliant results.

→ IC-305 – Designed for productive performance

Powerful printing performance, innovative features and flexible operations: The EFI IC-305 external image controller and Konica Minolta's bizhub PRO C65hc form an unrivalled combination of state-of-the-art technologies designed to meet the performance-driven requirements of reprographic departments and print-for-pay shops. Their quality, flexibility, reliability and ease of operation make them an ideal choice for demanding users in professional production environments.

Combining the IC-305 controller with the bizhub PRO C65hc, users take full advantage of the brilliant results and optimised workflow solutions offered by enhanced full-colour digital printing.



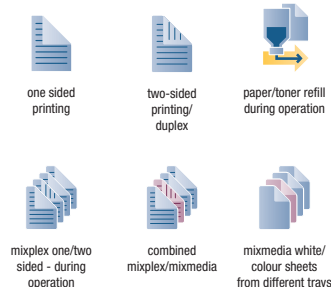
Ultimate versatility from start to finish



Professional finishing of the printed product is an integral part of any production run – and flexibility is the key! The bizhub PRO C65hc 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 C65hc (main unit)

Professional finishing starts right inside the bizhub PRO C65hc – 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 C65hc can be loaded with up to 4,750 sheets of paper; and with air assist paper feeding and optional dehumidifier it is capable to print on various types of media.



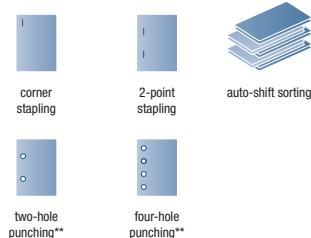
■ Paper feed unit (PF-602)

With the paper feed unit PF-602 the paper input capacity can be increased to 7,500 sheets; and with air assist paper feeding and optional dehumidifier the media flexibility of the bizhub PRO C65hc is further enhanced.



■ Staple finisher (FS-520)*

This entry level finisher is the ideal choice for the production of marketing collateral and corporate documents on the bizhub PRO C65hc.





■ Staple finisher (FS-521)

Equipped with the FS-521 the bizhub PRO C65hc provides multi-position stapling making this the perfect choice for the production of manuals, reports and other extensive documentation.



corner stapling



2-point stapling



variable staple length



auto-shift sorting



■ Booklet finisher (FS-607)*

Upgrading the bizhub PRO C65hc 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.



corner stapling



2-point stapling



colour sheet insertion, booklet***



colour cover insertion, booklet***



booklet (folding and saddle stitching)



two-hole punching**



four-hole punching**



half-fold



letter fold in



auto-shift sorting



■ Folding 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.



two-hole punching



four-hole punching



colour sheet insertion, booklet



colour cover insertion, booklet



mixmedia white/colour sheets from different trays



half-fold



letter fold in



gate-fold



letter fold out



double-parallel-fold



■ Large stacker (LS-505)

With the large capacity stacker unit the bizhub PRO C65hc is perfectly suitable 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 maker (SD-506)

The booklet-maker 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 binder (PB-502)

Konica Minolta's latest finisher highlight enables online production of all kinds of perfect-bound books. Z-fold insertion and the inclusion of pre-printed colour covers and sheets are also available.



perfect binder



perfect binder z-fold



perfect binder colour cover insertion



perfect binder color sheet insertion



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

System configurations

System A

The system for brochures, marketing collateral and direct mailings

- 65 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)
- Punching, folding and stapling
- Saddle stitching
- Booklet making for up to 20 sheets/80 images



System 0

The system for direct mailings, marketing collateral and brochures

- 65 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 PF-602 lower tray)
- Punching, folding and stapling
- Saddle stitching
- Booklet making for up to 20 sheets/80 images



System 3

The system for brochures and direct mailings

- 65 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



System 7

The system for labels and marketing collateral

- 65 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



System 9

The system for corporate documents and direct mailings

- 65 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



System 15

The system for perfect bound books, photo books and marketing collateral

- 65 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
- Bookbinding of up to 30 mm thickness in hot melted glue process
- Post insertion of cover sheets from various sources and in-line cover trimming





Technical specifications

Printer specifications

Print speed
65 ppm (A4)
36 ppm (A3)

Print resolution
Max.: 600 x 1,800 dpi

1st print
6.5 sec. (colour A4)

Gradations
256 gradations

IC-305 external EFI Fiery controller

Page description language
PostScript 3, PPML, TIFF, PDF

Printer driver
Windows 2000/XP/Server 2003, Mac OS X

CPU
Intel Core 2 Duo @ 2.13 GHz

Interface
Ethernet (10/100/1,000-Base-T)

Print memory
Standard: 1,024 MB

Printer HDD
160 GB

IC-304 Plus external Creo controller

Page description language
PostScript 3, PPML, TIFF, PDF, CT/LW, VPS

Printer driver
Windows 2000/XP/NT 4.0/Server 2003
Mac OS 9.x and 10.x

CPU
Intel Core 2 Duo @ 3,0 GHz

Interface
Ethernet (10/100/1,000-Base-T)

Print memory
Standard: 1,024 MB

Printer HDD
3x 250 GB

System specifications

Warm-up time
Less than 420 sec.

Main unit dimensions (W x D x H mm)
786 x 1,056 x 992

Main unit weight
360 kg

Paper weight
64–256 gsm
up to 300 gsm

Paper size
A5–A3+ (330 x 487 mm)

Maximum image area
318 x 480 mm

Duplex unit
Non-stack type, 64–256 gsm

Paper input capacity
7,500 sheets (with PF-602)
4,250 sheets (with LU-202)

Paper feed unit PF-602
2 magazines,
up to 6,000 sheets paper capacity
up to 300 gsm (from lower tray)

Large Capacity tray LU-202:
1 magazine, up to 2,500 sheets capacity,
up to 300 gsm

Booklet finisher FS-607
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-520
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 (for FS-607/FS-520)
Pre-printed sheet insertion
2 PI trays for 200 sheets each

Punch kit PK-512 (for FS-607/FS-520)
Punching (2 and 4 holes selectable)

Punch kit PK-513 (for FS-607/FS-520)
Punching (4 holes)

Folding 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

Booklet finisher 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)

Staple finisher 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 sort-
ing and grouping

Large stacker LS-505
Up to 5,000 sheets stacking capacity, trol-
ley mounted stacker, auto-shift stacking,
sub tray for up to 200 sheets, paper clamp
mechanism

Perfect binder PB-502
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 x 2 stacks

- All specifications relating to paper capacity refer to A4-size paper of 80 gsm quality.
- All specifications relating to printing speeds refer to A4-size paper that is printed crosswise in multipage, 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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