**bizhub PRO 1200 / 1051**

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>bizhub PRO 1200 / 1051</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Copier</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Direct</td>
</tr>
<tr>
<td>Print speed</td>
<td>120ppm (1200), 105ppm (1051)</td>
</tr>
<tr>
<td>Resolution</td>
<td>1200 x 1200dpi</td>
</tr>
<tr>
<td>Print media</td>
<td>A3 Wide, A3, B4, A4/A4S*, B5/B5S*, A5, postcard (182x139mm – 324x463mm)</td>
</tr>
<tr>
<td><strong>Scanner</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Embedded type</td>
</tr>
<tr>
<td>Memory</td>
<td>1200: 512MB, 1051: 512MB</td>
</tr>
<tr>
<td>Memory access speed</td>
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</tr>
<tr>
<td>Memory expansion</td>
<td>Non-effective</td>
</tr>
<tr>
<td>CPU</td>
<td>Pentium M 2.0GHz</td>
</tr>
<tr>
<td>Power</td>
<td>25% to 400%, adjustable in 1% increments</td>
</tr>
<tr>
<td>Interface</td>
<td>Embedded type</td>
</tr>
<tr>
<td><strong>System Options</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Copy</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>High-Speed, High-Quality Performance</td>
</tr>
<tr>
<td>Warm-up time</td>
<td>1st copy output time</td>
</tr>
<tr>
<td>Magnification</td>
<td>1:1.189/1,414/2.000</td>
</tr>
<tr>
<td>Gradation Type</td>
<td>3 types can be set</td>
</tr>
<tr>
<td>Gradation Type</td>
<td>25% to 400%, adjustable in 1% increments</td>
</tr>
<tr>
<td><strong>Paper</strong></td>
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<tr>
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<td><strong>Paper Feed Unit</strong></td>
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</tr>
<tr>
<td>Type</td>
<td>Parallel and gate-fold, A4-A3, 50-130g/m2</td>
</tr>
<tr>
<td>Single tray (max. output)</td>
<td>2 x 500 sheet multi-fold post inserter, punch unit; main tray: A5-A3+, 40-350g/m2</td>
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</tr>
<tr>
<td>High-speed Copy speed</td>
<td>1200: 120 sheets/min, 1051: 105 sheets/min</td>
</tr>
<tr>
<td>Speed</td>
<td>1200: 2.8sec., 1051: 3.0sec. (with A4 platen, straight delivery)</td>
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<tr>
<td><strong>Perfect Binder Unit</strong></td>
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<tr>
<td>Type</td>
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<tr>
<td>Type</td>
<td>2 trays x 500 sheets</td>
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<td>Type</td>
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**Network printer function (standard)**

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**Ecology & Environment**

- **Energy Star**
- **Production as an ISO9001 and ISO14001 Certified Factory**
- **European Font Adobe 136 types**
- **Embedded type**

**System Overview**

- **Saddle Stitch Unit**
- **Large Capacity Unit**
- **Multi-fold Punch Unit**
- **Perfect Binder Unit**
- **Multi-hole Punch Unit**
- **Paper Feed Unit**

**Requirements for safe use**

- "Read and follow the instruction manual to ensure safe operation."
- "Always use appropriate power supply voltages."
- "Connecting the unit to an inappropriate power source may cause explosion or electric shock. Please consult your dealer or the nearest Konica Minolta service center for further information."

**Konica Minolta**

1-1 Manseishita, Chiyoda-ku, Tokyo, Japan
http://www.konicaminolta.com
9251-3165-41 Printed in Japan
In the production printing world, the ability to handle on-demand jobs is fast becoming essential to survival. With customers making increasing demands on your small-lot capabilities, success depends on delivering a wider range of high quality services while keeping costs, turnaround times and downtime to a minimum. To meet the ever-growing needs of production printing for high-level reliability, efficiency and flexibility, Konica Minolta introduces the new bizhub PRO 1200/1051. Raising the bar even higher on productivity, quality and dependability, this new lineup empowers your production print facilities to provide better value for your customers and maximise your profitability.

The evolution of on-demand monochrome production printing, delivering total performance: confident reliability, efficient productivity and superb output quality

for Heavy Production Printing

bizhub PRO 1200

for Light Production Printing

bizhub PRO 1051
On-demand Production Printing Solutions

Solution 01 Cost Performance

By providing more cost-efficient performance and greater reliability, the bizhub PRO is the more economical choice.

- Total cost reduction
  Compared alongside competing production print machines, bizhub PRO 1200/1051 achieves remarkably cost-efficient performance. By using a more durable construction for greater reliability and less downtime, running costs are significantly lowered. Even as the cost-effective choice, however, bizhub PRO 1200/1051 is also an extremely high-performance machine.

- Wide range of small-lot printing choices
  Because it eliminates the need for photographic plates or films that offset printing machines must use, the bizhub PRO 1200/1051 is ideal for rapid handling of multiple small-lot on-demand print jobs. Users can print just the necessary amount right when it’s needed, eliminating the need to keep additional prints in stock and reducing overall costs.

Solution 02 In-house Capabilities

Offering a broad range of paper-handling and finishing capabilities enables more jobs to be done in-house at lower cost.

- Wider range of paper weight compatibility, up to 350g/m²
  The bizhub PRO 1200/1051 can handle paper types between 40g/m² up to 350g/m² as well as coated paper, pre-printed paper and other types. This allows a greater range of job types to be taken on, increasing the total number of orders coming in.

- Available finishing options enable advanced functions to be performed quickly and effectively
  - Saddle Stitcher (SD-506)
    This unit can staple together up to 50 sheets at once, for booklets of up to 200 pages. A fore-edge cutting function is also available for cleaner edges suitable for magazines or manuals.
  - Perfect Binder (PB-502,PB-503)
    Up to 300 sheets (or a maximum total thickness of 30mm) can be perfect bound to create professional-looking bound documents of up to 680 pages.
  - Multi-fold Unit (FD-503)
    6 different folding patterns, including centre folding, 3-folding and gate-folding, can be assigned to individual pages within a particular job. This unit can also perform hole punching and sheet insertion.

By selecting the finishing functions your workplace needs, an optimised workflow can be arranged, such as these suggestions:

System 1 For high-volume, high-speed commercial printing
With a 13,000-sheet paper supply and a 10,000-sheet output handling capacity, this arrangement enables fast turnaround times. This arrangement is recommended for straightforward large-volume printing jobs, with jobs requiring finishing being performed on a separate system.

System 2 Versatile finishing for easy small-lot job completion
With an 8,000-sheet paper supply, this arrangement provides a versatile array of in-line finishing functions, including hole-punching, center-stapling, and perfect binding. The versatility of this arrangement makes it ideal for handling jobs requiring finishing.

Solution 03 Variable Printing

Taking full advantage of the flexibility of on-demand printing, this feature delivers results with significant added value.

- Variable printing makes each output sheet uniquely customised. Used in combination with offset printing, this creates a powerful tool for meeting one-to-one market needs
  - Leaflet / Flier
    Information such as store names and addresses or special sales information can be applied to leaflets and fliers pre-printed in colour for ready distribution.

- Direct Mail
  Postcards pre-printed in colour can have individual recipient data, such as names and addresses, added to them.

Solution 04 Environmental Consideration

By adopting an ecologically sound design, resource and energy consumption are reduced.

- Energy Star
  The bizhub PRO 1200/1051 conforms to the guidelines of the International Energy Star Program for reduced energy consumption and improved efficiency.

- RoHS compliance
  In compliance with the EU’s RoHS (Reduction of Hazardous Substances) regulations, Konica Minolta will eliminate the use of harmful materials, including lead, mercury cadmium, hexavalent chromium, PBB and PBDE from the production of all electronic components.

Solution 05 Security

To ensure customer data is kept safe, bizhub PRO 1200/1051 offers an array of robust security features.

Advanced Security Mode provides enhanced protection of data

- Data protection and removal
  After a job is completed, all data in HDD storage and active memory, whether compressed or not, is overwritten with random data before being used for the next job.

- Strengthened password protection

- User authentication

- HDD lock

- Security Log
  This function produces a record of all past security activities for later review.

- Variable printing

- Management mode

The solutions of Konica Minolta’s Solutions of i include our extensive lineup of MFP’s, printers and software applications designed for you, the individual.

http://www.solutions-of-i.com
High Productivity & High Reliability

The advanced paper handling capability of bizhub PRO 1200/1051 provides an invaluable productivity edge for any production printing needs.

Quick response and high-speed output

- **Higher printing speeds**
  The bizhub PRO 1200 is capable of producing single- or double-sided output at a rate of 120ppm* (A4 horizontal), with a warm-up time of under 8 minutes and a first-copy output time of only 2.8 seconds. To further reduce downtime, paper and toner can be replaced while the bizhub PRO 1200/1051 is in operation, without needing to stop.
  
  *The bizhub PRO 1051 prints at 105ppm (A4, horizontal) with FCOT of 3.0 seconds.

- **Faster data processing**
  The built-in print controller uses a Linux operating system for robust, reliable performance. This allows accelerated data processing and variable printing for maximum productivity. This system also boasts multi-OS compatibility, allowing easy integration with pre-existing networks.

High-productivity paper handling for a range of needs

- **Improved paper compatibility**
  With the improved paper feed and transfer processes, a greater range of paper types can now be used, including types which previously had been difficult to handle, such as coated and pre-printed paper. This allows users to accept a greater range of job types and offer customers more output choices.

- **All trays handle A3 Wide size**
  All trays on the bizhub PRO 1200/1051 can handle A3 Wide sheets of up to 324mm x 463mm maximum size, with a printable area of 314mm x 463mm. Sheets as small as postcard size may also be handled within the main body (when the optional postcard kit is attached to the main body tray).

- **Compatible with sheets up to 350g/m²**
  The main body’s paper trays handle weights of 40 to 244g/m², while the optional Paper Feed Unit handles up to 350g/m². Paper between 40 and 216g/m² can be printed at 100% productivity. Double sided printing is possible for paper up to 244g/m², as well as for postcards*.

  *When the optional postcard kit is attached to the main body tray.

Reliable design prevents paper mis-feeding and printing errors before they happen

- **Air-suction paper feed mechanism**
  The optional PF-703 Paper Feed Unit utilises an air-suction paper feed unit that blows air from the sides and front. The paper then adheres to the conveyance belt by air suction. This reduces slipping caused by powder on the sheets, and ensures greater stability for high-speed output. The suction strength is automatically adjusted depending on paper type for optimised handling.

- **Multi-sheet detection sensor**
  Attached to the paper feed unit in the main body, the ADF, the optional FD-503 Multi-fold Punch Unit and the optional FA-501 PI-PFU Unit are multi-sheet paper detection sensors that keep extra paper from being mixed in with printed materials. This ultrasound sensor detects sheets fed from all trays. When an extra sheet is found, printing is automatically suspended to prevent printing errors and speed troubleshooting.

- **Air-assist paper feed mechanism**
  The air-assist paper feed mechanism prevents coated paper from sticking while being fed. Air is sent to stacks of coated paper to facilitate paper handling and maintain stable feeding. The feature is included in all main unit trays, as well as the optional paper feed units.

Smooth, efficient paper handling

- **Maximum storage of 14,000 sheets**
  With two 1,500-sheet standard paper trays and the optional PF-702 and PF-703 Paper Feed Unit connected in tandem, the bizhub PRO 1200/1051 has a maximum capacity of 14,000 sheets. Because paper trays can be refilled without interrupting output, large-volume jobs can be processed without downtime.

- **5,000-sheet stacking capability with convenient dolly**
  The optional LS-505 Stacker with dolly can handle up to 5,000 sheets*. Using two stackers in tandem, up to 10,000 sheets are always at the ready. After paper is delivered from the stacker, it can be carried to the next process as-is with the dolly. This paper delivery capacity significantly improves work efficiency.

*80g/m²
High Image Quality

bizhub PRO 1200/1051 delivers monochrome output quality that rivals offset printing, producing consistent quality throughout high-volume jobs.

- **Real 1,200dpi resolution**
  Documents can be copied at a high-quality resolution of up to 1,200x1,200dpi, resulting in sharp, crisp lettering and fine lines even at small font sizes, as well as smooth gradations and sharp details for images and photos. Additional smoothing processes during printing further enhance the appearance of your output.

- **New Simitri HD Toner**
  Konica Minolta’s new Simitri HD toner uses smaller, more consistently shaped particles, providing finer, straighter lines and more even halftones with fewer variations in density. Because it uses oil-less fixer, even solid blacks are produced with a natural looking gloss and reduced glare. The end result is beautiful image quality to rival that of offset printers.

Superior image stability ensures accurate, high-quality reproduction

- **Improved D-Max**
  To achieve a greater image density, a new developer is being used and the developer settings have been improved. The electric charge between the drum and the developer sleeve has been strengthened, improving the developing quality. By raising the maximum image density (D-max) density fluctuations during large-scale printing have been minimised.

- **New TCR and IDC sensors**
  The bizhub PRO 1200/1051 uses Image Density Control (IDC) sensor together with the newly developed Toner CarrierRatio (TCR) sensor to better regulate image density. The TCR sensor controls toner density, while the IDC sensor controls the rotation speed of the developer sleeve. Compared to previous models, which only used the IDC sensor, this new arrangement achieves better prevention of toner spills and more consistent output quality. This means that wide variations in density will be reproduced consistently, even over long print runs.

- **Improved developing unit agitation**
  To ensure print quality even at high output speeds, bizhub PRO 1200/1051 features improved developing unit agitation. The longer agitator screw and optimised rotation speed prevent fluctuations in toner density and ensure a consistent balance. This prevents changes in image density during continuous printing or at the ends of each output document.

Advanced reproduction of fine text lines

- **Belt transfer system**
  The bizhub PRO 1200/1051 uses a belt transfer system that improves the quality of paper feeding and images being transferred. Using an electric charge, the gap between the paper and the belt is eliminated. The pressure of the belt ensures that toner is fixed without unevenness for higher consistency. The incidence of image repellation at the paper’s edge and nip resistance which can cause inaccurate transfers is also reduced.

- **LPH (LED Print Head) writing system**
  The new LPH system employs an LED print head with a beam diameter of only 30 microns, half the size of previous models, making resolutions of 1,200dpi possible. This enables even finer text quality and improved image gradations.

Rich, lifelike gradations and halftone image processing

- **Tone Curve Utility**
  The tone curve utility is a standard part of the print controller. This allows image brightness and contrast to be adjusted to prevent blow-out of white or collapse of blacks. No other software is required, making adjustments simple and fast.

- **CIE Colour Space**
  In cases where colour data is being used, CIE colour space conversion enables the most accurate reproduction in monochrome. This mode produces much richer shadows, detailed highlights and smooth gradations.

- **Screen settings**
  New pre-setting screens (2 types in 3 patterns each) and dot screens were developed for 1,200dpi output, optimised for images, text or mixed data. By choosing the screen that best suits a particular output type, print quality can be maximised.

High-quality double-sided printing

- **Front and back registration**
  Using image shift and independent magnification adjustment, high-quality registration between front and back sides is possible. To eliminate small gaps between the two sides, minute adjustments to horizontal and vertical printing positions are automatically made. This level of accuracy is especially important in binding, where pages must be cut to fit together properly.

- **Paper skew sensor**
  The paper skew sensor prevents gaps in output that can occur when a sheet of paper becomes momentarily stuck or warped. When the amount of bend in the sheet exceeds a pre-determined limit, printing automatically stops to prevent later output from being affected.

Note: In High-coverage Mode, productivity is reduced to 30-40ppm.
In-line Finishing & Easy Operation

High-quality finishing capabilities allow a greater range of customer services to be offered, increasing profitability

**Versatile in-line finishing capabilities**

- **Multi-fold Punch Unit FD-503**
  - 6 folding styles available
  - The FD-503 Multi-fold Punch Unit provides an array of functions, including gate-fold, letter fold-in/out, double-parallel/Z-fold, sheet insertion and hole-punching. Two- and three-hole punching can be made along the side or top of each page on the left side of the page. This unit can also be used via manual insertion for off-line finishing.

- **Staple Finisher FS-521**
  - Staple up to 100 sheets at once
  - By attatching the FS-521 Staple Finisher, up to 100 sheets can be stapled automatically, either by corner stapling or two-point stapling. The staple cutting and in-line clinch feature produce clean, attractive results even on small jobs. An improved stack alignment function ensures that sheets are not skewed or uneven.

- **PI-PFU Unit FA-501**
  - Allows high-capacity sheet insertion
  - The FA-501 PI-PFU Unit can hold up to 5,000 sheets for insertion, and paper weights up to 350g/m². This reduces the number of times the paper supply needs to be refilled when printing large orders. This allows cover sheets printed in colour to be created separately with an offset machine and then combined with monochrome documents for faster, smoother production.

- **Staple Stitch Unit SD-506**
  - Staple up to 50 sheets for 200-page booklets
  - The SD-506 Staple Stitch Unit allows users to staple up to 50 sheets together, creating booklets of up to 200 pages. Saddle stitching also reduces paper displacement during binding and improves the strength and accuracy of two- and three-sheet folding. Double two-fold and three-fold functions and a face trimming function are also included. The automated fore-edge cutting function produces a clean finish while improving productivity.

- **Punch Unit GP-501**
  - Inline hole punch unit for ring binding
  - Users can adjust the unit to produce holes specifically to fit 10 different styles of ring binder.

**Perfect Binder Unit PB-502/PB-503**

- **Bind together up to 600 pages**
  - The PB-502/PB-503 Perfect Binder Units allow users to bind up to 300 sheets, for up to 600-page books (30mm thick or less). The system allows fast and simple in-line cutting, gluing and binding, letting users offer improved services to their customers. The new PB-503 Perfect Binder Unit can be connected with the FS-521 Staple Finisher for better space- and cost-efficiency. A deodorising unit is also built into the perfect binder for greater workplace comfort.

**Versatile, time-saving document management functions**

- **Flexible page layout function**
  - For greater speed and convenience in preparing on-demand jobs, the bizhub PRO 1200/1051 automatically handles page imposition for a wide selection of arrangements, including saddle stitch, perfect binding and centre folding. In addition, this system is also ideal for printing of small-size repeat layouts, such as business cards, tickets and direct mail fliers. Imposition for up to 16 pages can be performed on the same sheet. This feature greatly simplifies the layout process, allowing users to complete jobs faster and more accurately.

- **Per-page function**
  - This feature allows multiple printing and finishing settings to be applied to separate pages within a single document. For example, individual pages or sets of pages can be stapled, printed single- or double-sided, or printed on different types of paper. This provides customers much greater latitude in choosing how their documents will be produced, and the convenient interface makes it quick and simple for users to set.

**Universal Design and ease-of-use features**

- **15-inch colour LCD touch panel**
  - The universal design of the touch panel consists of a large, intuitive 15-inch LCD monitor with 65,000 colours, displaying operation procedures in a direct, easy-to-understand format. The function buttons are all conveniently located along the top of the screen to improve visibility and operability. The interface is highly intuitive and customisable, allowing users to change the layout and text size, or create shortcuts of frequently used options, to best suit their needs. Furthermore, the screen display time is approximately 0.1 second, enabling a stress-free response.

- **Universal Design**
  - Universal design thinking has gone into every aspect of the bizhub PRO, to allow full functionality for all users. The paper trays all feature handles which can be gripped underhand or overhand. The output trays are dark grey for maximum contrast with paper for easier visibility. And the start button uses a blue LED that is visible even to users with red-green colour blindness. The bizhub PRO has also been certified by the Color Universal Design Organization (CUDO), in recognition of its ease of use regardless of colour vision ability.