

Sales Guide

# SP 4520DN MP 401SPF

Black and White A4 Printer / MFP

✔ Printer ✔ Copier ✔ Scanner ✔ Fax

# nashuatec



SP 4520DN  
40 E/W  
ppm

MP 401SPF  
40 E/W  
ppm

## Contents:

|     |                               |         |
|-----|-------------------------------|---------|
| 1.  | Introduction                  | Page 3  |
| 2.  | Sales Highlights              | Page 4  |
| 4.  | Product Positioning           | Page 6  |
| 5.  | Configuration and Order Codes | Page 7  |
| 7.  | Target Markets                | Page 11 |
| 8.  | Key Features                  | Page 12 |
| 9.  | Specifications                | Page 17 |
| 10. | Service and Supplies          | Page 29 |
| 11. | Competition                   | Page 30 |

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## 1. Introduction

SP 4520DN and MP 401SPF are compact high performance black and white print and multifunctional solutions. The new A4 'super dick' models have the lowest TCO of Nashuatec's A4 mid range models and, with their advanced functionality and simple touchscreen operation (a new feature for the printer model) can be deployed as part of a managed workflow solution alongside other Nashuatec GWNX products.

SP 4520DN is a black-and-white LED printer and MP 401SPF is a versatile four-in-one LED MFP. The productive 40 ppm devices deliver immaculate 1,200 x 1,200 dpi resolution print output at full engine speed (most competitor models reduce speed when printing in high resolution). They have a compact design and sitting discreetly on the desktop put impressive performance and productivity within easy reach of all business users.



Nashuatec's Desktop A4 Range

SP 4520DN and MP 401SPF are additions to an extensive desktop range that includes the SP 4510DN and SP 4510SF as well as colour printers and MFPs. The new models offer a lower total cost of ownership than SP 4510DN and SP 4510SF, and both the printer and MFP share the same easily navigated touchscreen

| SP 4520DN vs SP 4510DN           | MP 401SP vs SP 4510SF |
|----------------------------------|-----------------------|
| Lower TCO                        |                       |
| Ultra high yield toner cartridge |                       |
| PpP service model                |                       |
| + Colour touchscreen             |                       |
| + USB/SD card reader             |                       |
| + Media print preview            |                       |
| + Web browser (option)           |                       |



control panel. Indeed the SP 4520DN is the first of Nashuatec's A4 mid range models to feature a colour touchscreen panel.

The tilting colour touchscreen panel provides a similar user experience to that of Nashuatec's latest A3 printers and MFPs and the Next Generation (GWNX) controller supports the same advanced workflow features, which for the MP 401SPF (MFP version) include searchable PDF (option), ID card copying and Distributed Scan Management (DSM). The commonality of features, functionality and operation mean that the new models can be integrated with Nashuatec A3 devices in an enterprise solution.

The network ready devices can be deployed in Windows, Mac, Citrix and Novel print environments and support PCL, PostScript and PDF Direct printing. XPS, NetWare and IPDS printing (SP 4520DN only) are options. When configured with the IPDS option, the SP 4520DN can be used to print transactional data, such as invoices and reports, directly from a mainframe computer.

Both models are equipped with a 500 sheet paper tray and 100 sheet bypass. The paper capacity can be increased to 1,600 sheets with the additional of one or two 250 sheet or 500 sheet paper trays. MP 401SPF, the multifunctional version of the product, is equipped with a 50 sheet ARDF and provides printer, copier, scanner and fax functionality.

This guide explores the functionality of the new products in more detail, exploring sales opportunities and identifying key selling points. It also provides side-by-side competitor comparisons.



## 2. Sales Highlights

### Improve productivity

With a 1,600 sheet maximum paper capacity and the ability to automatically switch between trays, SP 4520DN and MP 401SPF will maintain productivity throughout long print runs. Urgent one-off prints and copies are delivered in just 5 seconds and, running at 40 ppm, they can print up to 2,400 pages an hour. An impressive 150,000 page duty cycle provides scope for large peaks in demand.

- First page in less just 5 seconds (printer) / 6 seconds (MFP)
- Productive 40 ppm throughput
- 1,600 sheet maximum paper capacity
- Auto tray switching reduces downtime
- Best environmental credentials in class reduce costs



### Enhance quality

SP 4520DN and MP 401SPF will enhance the quality of your customers' print output, producing high-quality single and double-sided output on plain and recycled paper, pre-printed paper and letterheads. The combination of LED technology and ultra fine PXP chemical toner delivers beautifully rendered print with clearly defined characters, solid fills, fine lines and smooth gradations.

- LED technology with 1,200 x 1,200 dpi print resolution at full speed
- Fine lines, solid fills, smooth gradations
- Wide paper latitude (52 to 162 gsm)
- Supports plain and recycled paper, pre-printed paper and letterheads
- Inclusive design benefits for people of all ages and abilities



### Release space

SP 4520DN and MP 401SPF are amongst the most compact A4 printers and MFPs in their class. With footprints of just 0.145 m<sup>2</sup> and 0.179 m<sup>2</sup> respectively, they take up very little space and, being network ready, can be shared by multiple users. Print is delivered to a space-saving internal catch tray and consumables, such as paper and toner, are replenished at the front of the machine.

- Compact workgroup print solutions
- Tiny footprint releases desk space
- MFP can replace multiple stand-alone devices
- Internal catch tray collates output
- Simple front-facing access to paper and toner



## Save time

SP 4520DN and MP 401SPF are incredibly easy to use. The PCL and PS3 drivers feature point-and-click icons which simplify the print process and the mail-to-print feature allows remote users to email documents to the printer. Confidential documents can be password protected and released upon collection (requires optional HDD). Documents stored on a USB/SD media card can be previewed on the control panel of the MFP before printing.

- Icon-based PCL and PS3 print drivers
- Remote users can email documents to the printer
- Password protect and lock confidential documents (requires optional HDD)
- Colour touchscreen operation panel
- Preview and print from USB/SD card (requires optional HDD)



## Add value

For a small premium, customers can opt for a multifunctional version of the product. The versatile 4-in-1 MFP will meet workgroup needs for productive black-and-white printing and copying, colour scanning and fax. The high capacity ARDF automates scanning and copying processes, saving time. MP 401SPF supports advanced multifunctional features such as ID card copying and distributed scan management.

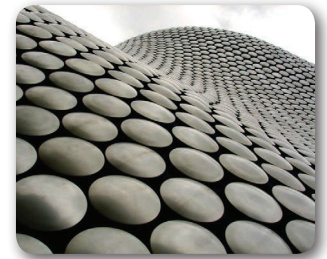
- Kensington lock security slot
- High-speed high-quality printing and copying (MFP)
- Scan to email and folder in full colour (MFP)
- Distributed Scan Management (DSM) workflow enabled (MFP)



## Workflow enabled

The network ready devices can be deployed in Windows, Mac, Citrix and Novel print environments. A wireless interface option increases flexibility. SP 4520DN and MP 401SPF support PCL and PS3 printing and, when equipped with the IPDS option, SP 4520DN can print transactional data directly from host computer systems. To simplify support, the printer and MFP share the same drivers and consumable options.

- Print & Scan from your smart device with Nashuatec's Smart Device Print & Scan
- Easy integration in current machine base thanks to Universal Print Driver
- Genuine IPDS-option for error-free host printing (printer)
- Search in and copy from scanned documents with searchable PDF (MFP)
- Enjoy the possibility to enable Nashuatec's Software capabilities such as Streamline NX (option) and Flexrelease CX (option)



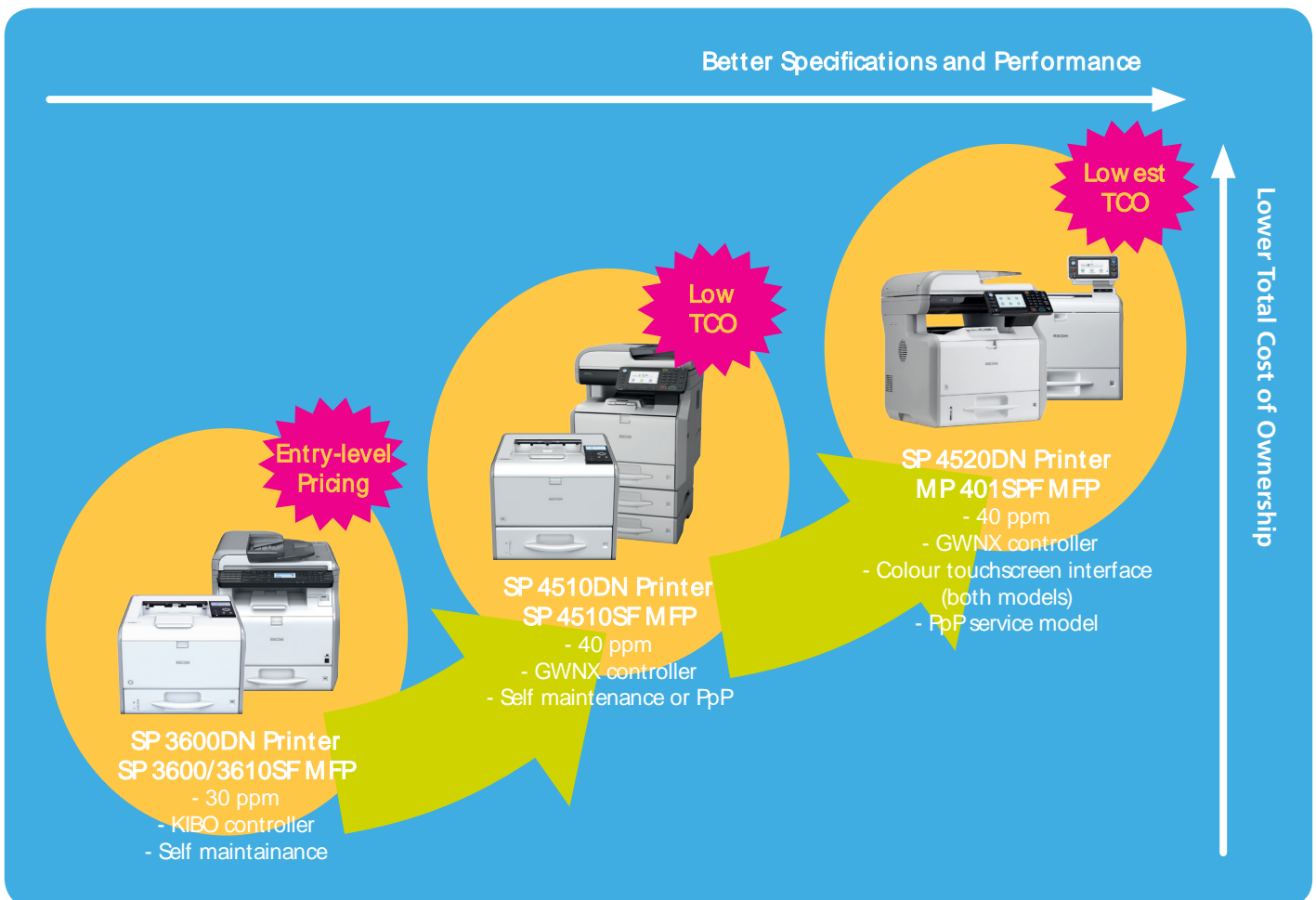
### 3. Product Positioning

- Compact productive workgroup printer/MFP
- ‘Super Click’ TCO models
- LED technology delivers 1200 dpi black and white output at full 40 ppm
- GWNX controller supports workflow applications
- Small premium for multifunctional version
- Printer version now with user friendly touch panel and print from USB function

SP 4520DN and MP 401SPF are additions to Nashuatec's mid range desktop line up. The new ‘Super Click’ models have a lower total cost of ownership than the SP 4510DN and SP 4510SF. Sharing the same touchscreen interface and advanced functionality as Nashuatec's floor standing A3 GWNX MFPs, they can be deployed as an integral part of a managed enterprise-wide workflow solution.

SP 4520DN and MP 401SPF compete favourably with the best selling mid range desktop models from HP, Lexmark, Kyocera

and Samsung. Serviced on an all-inclusive pay-per-page basis, the new Nashuatec devices offer a lower total cost of ownership than competitors who typically offset low retail prices with higher running costs. The Nashuatec models are also more environmentally sustainable. They have the lowest TEC ratings of all comparable devices in their class and boast energy star certification. Other competitive advantages, which are explored in section 9, include their compact space-saving design, productive high quality performance and simple touchscreen operation.



## 4. Configuration and Order Codes

### Hardware Configuration

SP 4520DN is a network ready postscript printer equipped with a duplex, a 500 sheet paper tray and a 100 sheet multi-bypass. MP 401SPF is a 4-in-1 MFP equipped with a 50 sheet ARDF, a 500 sheet paper tray and a 100 sheet multi-bypass. The paper capacity of both models can be expanded to 1,600 sheets.

#### SP 4520DN



- 1 = Colour operation panel
- 2 = USB/SD card reader
- 3 = 250 sheet catch tray
- 4 = Duplex (internal)
- 5 = 100 sheet bypass (internal)
- 6 = 500 sheet paper tray

#### MP 401SPF



- 1 = 50 sheet ARDF
- 2 = Colour operation panel
- 3 = USB/SD card reader
- 4 = 250 sheet catch tray
- 5 = Duplex (internal)
- 6 = 100 sheet bypass (internal)
- 7 = 500 sheet paper tray

### Peripheral Configuration



- 1 = 250 sheet paper tray
- 2 = 500 sheet paper tray (a maximum of two trays of either type can be attached)
- 3 = High cabinet
- 4 = Medium cabinet



Please see 'Cabinet and Paper Tray Configuration - SP 4520DN (Printer)' and 'Cabinet and Paper Tray Configuration - MP 401SPF (MFP)' for tray and cabinet configurations.



### Functional Configuration

| Functional Configuration | SP 4520DN  | MP 401SPF   |
|--------------------------|--|---|
| Printer                  | Standard   | Standard  |
| Copier                   | -  | Standard  |
| Fax                      | -  | Standard  |
| Colour Scanner           | -  | Standard  |
| HDD / Document Server    | Option (320 GB)                                      | Option (320 GB)   |
| USB/SD Card Slot         | Standard (requires optional HDD to use)              | Standard (requires optional HDD to use)                         |
| Network Interface        | Ethernet (standard), Wireless and Parallel (options) | Ethernet (standard), Wireless, Parallel and Bluetooth (options) |
| PCL Printing             | Standard   | Standard  |
| PostScript Printing      | Standard   | Standard  |
| XPS Printing             | Option   | Option  |
| IPDS Printing            | Option   | -   |
| Web Browser              | Option   | Option  |

More peripheral and functional upgrade options are listed on the next page (see EDP Codes and Dependencies)

## EDP Codes and Dependencies

| EDP Codes and Dependencies - SP 4520DN (Printer) |                      |  |          |                                 |  |
|--|----------------------|--|----------|---------------------------------|--|
| Category   | Item                 | Product Name                             | EDP Code | Must Install                    | Cannot Install                                 |
| Mainframe  | SP 4520DN            | SP 4520DN                                | 407310   | OI Kit not required             | -  |
| Paper Feed                                       | 250 sheet paper tray | Paper Feed Unit PB1060                   | 407230   | -                               | Maximum 2 additional trays (250 or 500 sheets) |
|  | 500 sheet paper tray | Paper Feed Unit PB1070                   | 407229   | -                               | Maximum 2 additional trays (250 or 500 sheets) |
| Cabinets   | High cabinet         | High cabinet                             | 991985   | -                               | Medium cabinet                                 |
|  | Medium cabinet       | Medium cabinet                           | 991987   | -                               | Low cabinet                                    |
| Interface  | Parallel Interface   | IEEE 1284 Interface Board Type A         | 411699   | -                               | IEEE802.11 Interface or File Format Converter  |
|  | Wireless Interface   | IEEE802.11 Interface Unit Type O         | 407113   | -                               | IEEE 1284 Interface, or File Format Converter  |
| Memory   | Hard Disk Drive      | Hard Disk Drive Option Type P1           | 407348   | -                               | -  |
|  | Memory Unit          | Memory Unit Type N1 1.0GB                | 407112   | -                               | -  |
| Print  | IPDS Unit            | IPDS Unit Type P1                        | 407697   | -                               | -  |
|  | NetWare Option       | SD card for NetWare printing Type I      | 407696   | -                               | -  |
|  | XPS Option           | XPS Direct Print Option Type P1          | 407351   | -                               | -  |
|  | Unicode Font Package | Unicode Font Package for SAP 1 License   | 413009   | Hard Disk Drive                 | -  |
|  | Unicode Font Package | Unicode Font Package for SAP 10 License  | 413010   | Hard Disk Drive                 | -  |
|  | Unicode Font Package | Unicode Font Package for SAP 100 License | 413011   | Hard Disk Drive                 | -  |
| Functional                                       | Browser Unit         | Browser Unit Type P1                     | 407497   | Hard Disk Drive and Memory Unit | -  |
|  | VM Card              | VM Card Type W                           | 407702   | Hard Disk Drive and Memory Unit | -  |

| Cabinet and Paper Tray Configuration - SP 4520DN (Printer) |                        |                        |                             |                        |                        |
|--|------------------------|------------------------|-----------------------------|------------------------|------------------------|
| Printer only   | Printer and 1 x PB1060 | Printer and 1 x PB1070 | Printer and PB1060 & PB1070 | Printer and 2 x PB1060 | Printer and 2 x PB1070 |
| High Cabinet   | High Cabinet           | High Cabinet           | High Cabinet                | High Cabinet           | Medium Cabinet         |

| Consumable EDP Codes - SP 4520DN (Printer) |             |                        |          |                    |
|--|-------------|------------------------|----------|--------------------|
| Brand                                      | Item        | Product Name           | EDP Code | Quantity and Yield |
| Nashuatec                                  | Toner Black | Print Cartridge MP 401 | 841887   | 11,900 pages*      |

\* A4, 5% coverage, 3p/j



### EDP Codes and Dependencies - MP 401SPF (MFP)

| Category   | Item                       | Product Name                             | EDP Code | Must Install                    | Cannot Install   |
|------------|----------------------------|--|----------|---------------------------------|--|
| Mainframe  | MP 401SPF                  | MP 401SPF                                | 407227   | OI Kit                          |  |
| Paper Feed | 250 sheet paper tray       | Paper Feed Unit PB1060                   | 407230   | -                               | Maximum 2 additional trays (250 or 500 sheets)                     |
|            | 500 sheet paper tray       | Paper Feed Unit PB1070                   | 407229   | -                               | Maximum 2 additional trays (250 or 500 sheets)                     |
| Cabinets   | High cabinet               | High cabinet                             | 991985   | -                               | Medium cabinet   |
|            | Medium cabinet             | Medium cabinet                           | 991987   | -                               | Low cabinet  |
| Interface  | Parallel Interface         | IEEE 1284 Interface Board Type A         | 411699   | -                               | Bluetooth Interface, IEEE802.11 Interface or File Format Converter |
|            | Wireless Interface         | IEEE802.11 Interface Unit Type O         | 407113   | -                               | IEEE 1284 Interface, Bluetooth Interface or File Format Converter  |
|            | Bluetooth Interface        | Bluetooth Interface Unit Type D          | 415818   | -                               | IEEE 1284 Interface, IEEE802.11 Interface or File Format Converter |
| Memory     | Hard Disk Drive (320 GB)   | Hard Disk Drive Option Type M6           | 407222   | -                               | -  |
|            | Memory Unit                | Memory Unit Type M1 1.5GB                | 986640   | -                               | -  |
| Print      | NetWare Option             | SD card for NetWare printing Type M6     | 407224   | -                               | -  |
|            | XPS Option                 | XPS Direct Print Option Type M6          | 407343   | -                               | -  |
|            | Unicode Font Package       | Unicode Font Package for SAP 1 License   | 413009   | Hard Disk Drive                 | -  |
|            | Unicode Font Package       | Unicode Font Package for SAP 10 License  | 413010   | Hard Disk Drive                 | -  |
|            | Unicode Font Package       | Unicode Font Package for SAP 100 License | 413011   | Hard Disk Drive                 | -  |
| Functional | Browser Unit               | Browser Unit Type M6                     | 407699   | Hard Disk Drive and Memory Unit | -  |
|            | File Format Converter      | File Format Converter Type E             | 414007   | Hard Disk Drive                 | Bluetooth Interface, IEEE 1284 Interface or IEEE802.11 Interface   |
|            | VM Card                    | VM Card Type W                           | 407702   | Hard Disk Drive and Memory Unit | -  |
|            | OCR option                 | OCR Unit Type M2                         | 417173   | Hard Disk Drive                 | -  |
| Security   | Copy Data Security Unit    | Copy Data Security Unit Type F           | 416391   | -                               | -  |
|            | Key Counter I/F Unit 20pin | Optional Counter Interface Unit Type A   | 413012   | -                               | -  |
|            | Data Overwrite Security    | Data Overwrite Security Unit Type I      | 416372   | -                               | -  |

### Cabinet and Paper Tray Configuration - MP 401SPF (MFP)

| MFP only     | MFP and<br>1 x PB1060 | MFP and<br>1 x PB1070 | MFP and<br>PB1060 & PB1070 | MFP and<br>2 x PB1060 | MFP and<br>2 x PB1070 |
|--------------|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| High Cabinet | High Cabinet          | High Cabinet          | Medium Cabinet             | Medium Cabinet        | Medium Cabinet        |

### OI Kit EDP Codes - MP 401SPF (MFP)

| Language  | Description               | EDP Code | Language   | Description                | EDP Code |
|-----------|---------------------------|----------|------------|----------------------------|----------|
| English   | OI KIT MP401SPF English   | 991947   | Polish     | OI KIT MP401SPF Polish     | 991974   |
| French    | OI KIT MP401SPF French    | 991958   | Portuguese | OI KIT MP401SPF Portuguese | 991975   |
| German    | OI KIT MP401SPF German    | 992247   | Hungarian  | OI KIT MP401SPF Hungarian  | 991976   |
| Italian   | OI KIT MP401SPF Italian   | 991963   | Czech      | OI KIT MP401SPF Czech      | 991977   |
| Spanish   | OI KIT MP401SPF Spanish   | 991964   | Finnish    | OI KIT MP401SPF Finnish    | 991978   |
| Dutch     | OI KIT MP401SPF Dutch     | 991965   | Russian    | OI KIT MP401SPF Russian    | 991979   |
| Norwegian | OI KIT MP401SPF Norwegian | 991971   | Greek      | OI KIT MP401SPF Greek      | 991980   |
| Danish    | OI KIT MP401SPF Danish    | 991972   | Catalan    | OI KIT MP401SPF Catalan    | 991981   |
| Swedish   | OI KIT MP401SPF Swedish   | 991973   | Turkish    | OI KIT MP401SPF Turkish    | 991982   |

### Consumable EDP Codes - MP 401SPF (MFP)

| Brand     | Item        | Product Name           | EDP Code | Quantity and Yield         |
|-----------|-------------|------------------------|----------|----------------------------|
| Nashuatec | Toner Black | Print Cartridge MP 401 | 841887   | 10,400 pages <sup>1/</sup> |

<sup>1/</sup>A4, 6% coverage, 3p/j

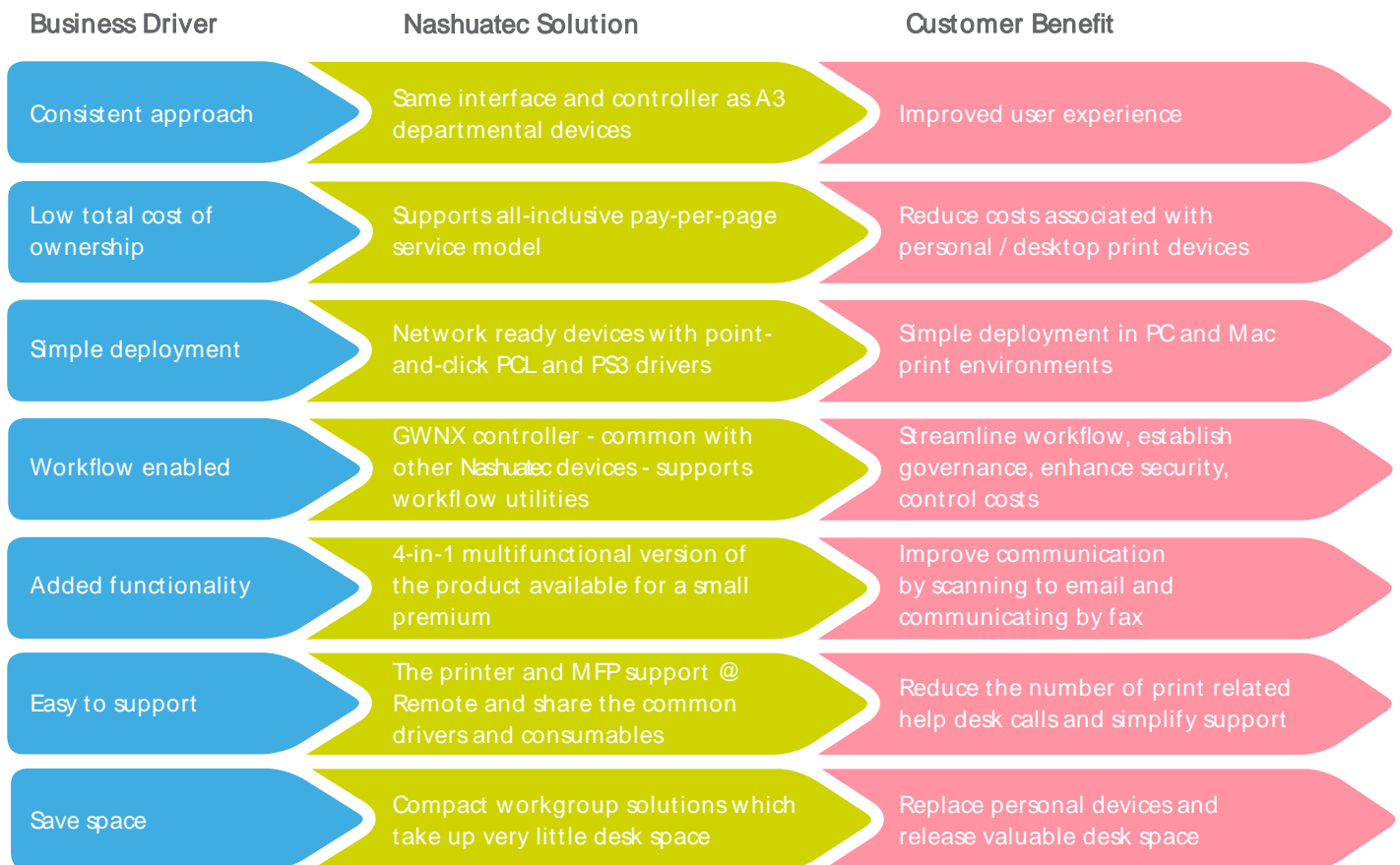
## 5. Target Markets

SP 4520DN and MP 401SPF are targeted at large organisations looking for a managed and consistent approach to printing. Customers will include SMBs, large enterprises and organisations with a print environment managed by the vendor and serviced on a PpP basis. The new models have a low total cost of ownership and, because they share the same colour touchscreen interface and advanced GWNX controller as Nashuatec's A3 MFPs, can be installed alongside them as part of a managed and consistent enterprise-wide print solution.

SP 4520DN is a productive black and white desktop printer and MP 401SPF is a versatile MFP. With outstanding specifications that include 40 ppm throughput, 1,200 x 1,200 dpi resolution and PCL/PS printing, SP 4520DN and MP 401SPF can be deployed as productive personal devices or as workgroup satellite systems supporting larger departmental printers and MFPs. The GWNX workflow features will appeal to large corporations, financial institutions and government organisations wanting to establish governance over the print environment.





High-level business drivers will include:





## 6. Key Features

| Mainframe - SP 4520DN and MP 401SPF   |   |   |
|---|---|---|
| Feature   | Advantage   | Benefit   |
| Compact design<br>              | With footprints of just 0.145 m <sup>2</sup> (SP 4520DN) and 0.179 m <sup>2</sup> (MP 401SPF), the new devices are amongst the most compact in their class.                             | Saves valuable office space.  |
| A4 print engine   | The new devices handle paper sizes from A6 to A4.   | Low cost, space saving alternative to A3.   |
| Next Generation (GWNX) controller architecture  | Same controller architecture as Nashua's latest A3 devices. Runs integrated workflow applications.  | Common interface automates workflow, establishes governance and enforces security.                  |
| USB/SD card reader  | Both models are equipped with an USB/SD card reader.  | Improves access by enabling walk up users to print from flash memory.                               |
| Media print settings  | Print settings such as duplex and booklet printing can be applied to documents held on the USB/SD card.   | Improves functionality enhances the quality of printed documents.                                   |
| Colour touchscreen display<br> | Both models have a tilting 4.3 inch colour touchscreen display. The panel depicted is the MFP display. The printer panel (shown above and on other pages) does not have numerical keys. | Simplifies operation and provides common interface across a range of devices.                       |
| Web Browser (option)  | Enables users to navigate and print from the Web, as well as access and print documents stored in cloud-based accounts.   | Saves time and improves access to information.  |
| Media print preview   | Documents held on the USB/SD card can be previewed at the control panel. The preview is displayed with selected print settings applied.   | Reduces waste by ensuring that the right documents are selected and printed in the format required. |



### Productivity - SP 4520DN and MP 401SPF

| Feature             | Advantage   | Benefit   |
|---------------------|---|---|
| Quick warm up       | Ready to print within 17 seconds (printer) / 14 seconds (MFP).                          | Saves time and improves productivity.   |
| Fast first page     | Urgent one-off prints and copies are delivered in just 5 seconds.                       | Maintains productivity by producing one-off prints faster.                                      |
| LED technology      | A multi-source LED array is used in place of a conventional single-source laser writer. | Speeds the print process, enabling 1,200 x 1,200 dpi print to be produced at full engine speed. |
| 40 ppm print engine | Continuous single-sided print output is produced at a speed of 40 A4 ppm.               | Multi page documents are produced quickly, supporting workgroup use.                            |
| High speed duplex   | The integral duplex delivers double-sided print output at a rate of 35 A4 ppm.          | Maintain productivity when printing double-sided.   |

### Paper Handling - SP 4520DN and MP 401SPF

| Feature  | Advantage   | Benefit   |
|--|---|---|
| 1,600 sheet maximum paper capacity                     | The standard capacity of 600 sheets (500 sheet tray + 100 sheet bypass) can be expanded to 1,600 sheets with the addition of two 1 x 500 sheet paper trays. | Hold different stock online and reduce downtime related to paper replenishment.                 |
| Auto tray switching (requires optional 2nd / 3rd tray) | The printer and MFP can automatically switch from one tray to another.  | Improves productivity and enables paper to be replenish without interrupting the print process. |
| Versatile media support                                | The paper trays, bypass and duplex support media weights of media of 52 to 162 gsm.   | Add impact by printing on thick paper, letterhead paper and other non-standard media.           |
| Envelope printing                                      | The bypass tray also support printing on envelopes and labels.  | Speed mailing process by printing addresses onto envelopes.                                     |

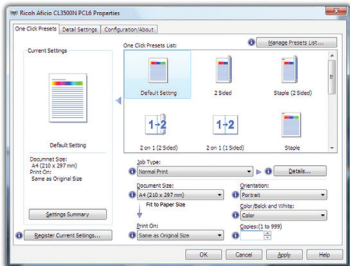
### Quality - SP 4520DN and MP 401SPF

| Feature                      | Advantage   | Benefit  |
|------------------------------|---|--|
| 1,200 x 1,200 dpi resolution | The new printer and MFPs produce 1,200 x 1,200 dpi resolution print output. | Improves the appearance of business communication.                         |
| PxP chemical toner           | A chemically produced toner with ultra fine uniformly shaped particles.     | Clearly defined characters, solid fills, fine lines and smooth gradations. |

### Network - SP 4520DN and MP 401SPF

| Feature         | Advantage  | Benefit  |
|-----------------|--|--|
| Network ready   | The new printer and MFP are equipped with an ethernet interface.   | The network ready device can be shared by workgroup users.                 |
| Wireless option | A wireless interface which supports WPS protected setup is offered as an option. The Wifi option supports the latest high speed n/w protocols. | Improves access as the device can be used in a wireless print environment. |

## Printing - SP 4520DN and MP 401SPF


| Feature  | Advantage   | Benefit   |
|--|---|---|
| PLC and PS printing  | SP 4520DN and MP 401SPF support PCL and PS3 printing.   | Files are processed in the printer, speeding the print process and improving accuracy. The postscript driver enables the devices to be used in a Mac print environment. |
| Point and print icons<br> | The PCL and PS3 print drivers have graphic icons which allow single click selection of complex settings.  | Simplifies the print process, saving time.  |
| AirPrint (SP 4520DN)   | Supports printing directly from iPhone, iPad, or iPod touch without having to install additional software.                                      | Improves access and mobility.   |
| Nashua's Smart Device Print and Scan app   | Free Ricoh app enables documents to be printed from smartphones and tablets.  | Improves access and mobility.   |
| PDF direct print   | PDF documents can be printed directly to the PostScript enabled printer. The files are processed by the printer rather than the PC.             | Releases computing resource and reduces network traffic.  |
| Mail to Print (requires optional HDD and VM card)  | Send an e-mail with attached data directly to the printer or MFP for printing.  | Improves access and simplifies print process.   |
| XPS direct print (option)  | SP 4520DN and MP 401SPF also support XPS direct print. XPS is an XML based document format similar to PDF which is being promoted by Microsoft. | Compatible with newly emerging print format.  |
| IPDS print (option)  | The genuine IPDS option enables fast, error-free bi-directional communication with mainframe (host) computer systems.                           | Improve ROI by printing transactional data such as invoices and statements.   |
| Scheduled print (requires optional HDD and VM card)  | Users can specify a time at which documents are to be printed.  | Reduces bottlenecks. Time-consuming jobs such as invoicing can be scheduled to run overnight or at the weekend.   |

## Security - SP 4520DN and MP 401SPF

| Feature   | Advantage  | Benefit   |
|---|--|---|
| DataOverwrite Security (requires optional HDD)        | Overwrites temporary data held on the hard drive with random data.   | Protects security by ensuring that temporary data cannot be recovered.      |
| HDD Encryption (requires optional HDD)                | Encrypts the address book, authentication information and stored documents.                                    | Protects security by encrypting documents.                                  |
| Locked print (requires optional HDD)                  | Confidential print can be password protected and held in the document server until released by the originator. | Protects document confidentiality.  |
| Quota scheduling (requires optional HDD and VM card)  | The administrator can limit the output of individual users and user groups by setting page count limits.       | Establishes governance over the print environment and reduces print volume. |
| Banner page print (requires optional HDD and VM card) | A job sheet can be printed before a print job which identifies the originator.                                 | Makes it easier to identify work in a busy environment.                     |

|   |   |   |
|---|---|---|
| Mandatory hold print<br>(requires optional HDD and VM card)           | When mandatory hold print is activated by the administrator, print output is held in the document server until released at the printer by the originator. | Protects confidentiality and reduces waste.                           |
| Mandatory security information<br>(requires optional HDD and VM card) | Automatically append security information such as the user ID, date, time, IP address and printer serial number to every document printed.                | Improves document security by establishing a printed audit trail.     |
| Copy Data Security<br>(option for MFP)                                | To prevent unauthorised copying, the user can embed patterns beneath the print.   | Protects confidential information by making it illegible when copied. |
| Kensington security slot  | The Kensington security slot is a metal reinforced lockpoint that allows the machine to be tethered using a lock and cable.                               | Can be used to protect the printer and MFP from theft.                |

### Colour Scanning - MP 401SPF

| Feature  | Advantage   | Benefit   |
|--|---|---|
| Colour scanner<br> | Documents can be scanned in full colour at resolutions of up to 600 x 600 dpi.  | High-resolution scanning facility eliminates the need for standalone scanning device.                                       |
| 50 sheet ARDF  | Feeds single and double sided originals at a speed of 30 ipm (colour and B/W).  | Automates scanning and copying processes, saving time.  |
| Flatbed scanner  | Books and photographs can be scanned directly from the platen glass.  | It is easy to scan bound or mounted originals such as books and photographs.  |
| Distributed scan management (DSM)  | The administrator can pre-set scanning conditions and destinations for users.   | Simplifies the scanning process.  |
| Searchable PDF (requires OCR option)   | The document text is recognised and saved along with the original document.   | Improves access to information as documents can be searched for using keywords, and text within the document can be edited. |
| Encrypted PDF transmission   | PDF documents scanned to e-mail, saved to the document server or to another network location can be encrypted and password protected.   | Protects confidential information.  |
| Enhanced encryption level  | The user can select secure encryption algorithms. Supported algorithms include AES256bit (used by the US government, NESSIE in the EU and CRYPTREC in Japan) and SHA-2 (used by the US National Security Agency). | Encryption complies with government and industry regulatory standards.  |
| PDF/A  | PDF/A is an ISO standard for the long-term archiving of electronic documents. The format locks the document to maintain its originality and records within the document a 'Device Certificate'.                   | Document format complies with government and industry regulatory standards.   |

### Copying - MP 401SPF

| Feature              | Function  | Customer Benefit  |
|----------------------|---|---|
| Scan once, copy many | Copies are produced from memory.  | Each copy is identical to the first.  |
| Electronic sorting   | Copies and prints are delivered in page order.  | Saves time as sets are collated ready for distribution.   |
| Digital zoom         | MP 401SPF has a 25 to 400% zoom. Standard enlargement and reduction ratios are easily selected. | Small images are easily enlarged for easier reading.  |
| ID card copy         | Automatically copies both sides of an ID card onto one side of a sheet of paper.                | Saves time and paper. Will prove useful to organisations which need to record credit card and passport details. |
| Combine copy         | Scan two or four originals and print them as tiled copies on one sheet of paper                 | Reduce print and paper costs.   |

### Fax - MP 401SPF

| Feature           | Advantage  | Benefit  |
|-------------------|--|--|
| Fax functionality | Fully featured plain paper fax machine.  | Eliminates the need for a separate standalone fax machine, saving money and space. |
| Fast transmission | An A4 fax message can be scanned in 2.4 seconds and transmitted in 2 seconds.                | Fast transmission saves the user time and reduces line charges.                    |
| Book fax          | Bound documents, such as brochures and reports, can be faxed directly from the platen glass. | Saves time as there's no need to breakdown bound documents for faxing.             |
| Quick dial        | There is the facility to save 32 speed dial locations.                                       | Speeds communication with regular contacts.  |

### Environment - SP 4520DN and MP 401SPF

| Feature  | Advantage  | Benefit   |
|--|--|---|
| Sleep mode   | In energy saving sleep mode, the new devices consume just 0.58 W (printer) and 0.72W (MFP).    | Cuts energy consumption.  |
| Power on/off timer (MFP)   | The power on/off timer switches the machine on and off at specified times.                     | Ensures the machine is ready for use and saves energy by switching the machine off when it is not required. |
| ECO Night Sensor (Printer)   | The ECO Night Sensor will switch the printer to energy saving sleep mode when dusk falls.      | Minimises energy consumption.   |
| Low TEC rating (total energy consumption)  | TEC ratings (typical electricity consumption) of just 1.741 kWh (printer) and 1,759 kWh (MFP). | Using energy efficient technology reduces carbon emissions.   |
| Included in Ricoh award winning third-party certified Sustainability Optimisation programme and Carbon Balanced Printing service | Enables certified neutralisation of carbon emissions through the purchase of carbon credits.   | Neutralise carbon emissions.  |



## 7. Specifications

| General Specifications - SP 4520DN |                           |  |  |
|------------------------------------|---------------------------|--|--|
| Warm-up time                       | 17 seconds                |  |  |
| First output speed                 | B/W                       | 5 seconds  |  |
| Print speed                        | B/W                       | A4<br>A4 duplex                                  | 40 pages per minute<br>35 pages per minute |
| Memory                             | Standard<br>Maximum       | 512 MB<br>1,024 MB                               |  |
| HDD                                | Option                    | 320 GB (Encryption/Data Overwrite Security unit) |  |
| Duty cycle                         | 150,000 prints per month  |  |  |
| Life                               | 5 years or 600,000 output |  |  |
| Duplex                             | Yes                       |  |  |
| Dimensions (W x D x H)             | 370 x 392 x 306 mm        |  |  |
| Weight                             | 14 kg                     |  |  |

| Printer Specifications - SP 4520DN |  |   |  |
|------------------------------------|--|---|--|
| RAM                                | Standard<br>Maximum  | 512 MB<br>1,024 MB  |  |
| HDD                                | Maximum  | 320 GB  |  |
| Printer language                   | Standard<br><br>Optional   | PCL5e<br>PCL6<br>Adobe® PostScript® 3™<br>PDF direct print<br>Mediaprint (JPEG/TIFF)<br>XPS<br>IPDS                     |  |
| Print resolution                   | 1,200 x 1,200 dpi  |   |  |
| Interface                          | Standard<br><br>Option   | USB 2.0<br>SD slot<br>USB Host I/F<br>Gigabit Ethernet<br>Bi-directional IEEE 1284<br>Wireless LAN (IEEE 802.11a/b/g/n) |  |
| Network protocol                   | TCP/IP<br>IPX/SPX (Option)   |   |  |
| Windows® environments              | Windows® Vista<br>Windows® 7<br>Windows® 8<br>Windows® 8.1<br>Windows® Server 2003<br>Windows® Server 2008<br>Windows® Server 2012 |   |  |

|                               |  |   |  |
|-------------------------------|--|---|--|
| Mac OS environments           | Macintosh OS X v10.5 or later  |   |  |
| UNIX environments             | UNIX Sun® Solaris<br><br>HP-UX<br><br>SCO OpenServer<br><br>RedHat® Linux Enterprise<br><br>IBM® AIX   | 2.9<br>2.10<br>11.x<br>11i v2<br>11i v3<br>5.0.7<br>6.0<br>4<br>5<br>6<br>5L v5.3<br>5L v6.1<br>5L v7.1 |  |
| Novell® Netware® environments | v6.5   |   |  |
| Printer driver features       | Sample print<br>Locked print<br>Hold print<br>Stored print<br>Store and print<br>Reduce/enlarge(zoom/scaling)<br>Layout (N-up, page per sheet)<br>Duplex<br>Collate<br>Rotate by 180 degrees<br>User ID<br>User code |   |  |

| Paper Specifications - SP 4520DN |  |                            |  |
|----------------------------------|--|----------------------------|--|
| Recommended paper size           | A4<br>A5<br>A6<br>B5<br>B6                   |                            |  |
| Paper input capacity             | Standard<br>Maximum                          | 600 sheets<br>1,600 sheets |  |
| Paper output capacity            | Maximum                                      | 250 sheets                 |  |
| Paper weight                     | Paper tray(s)                                | 52 - 162 g/m <sup>2</sup>  |  |
| Media capability                 | Plain paper<br>Thick paper<br>Recycled paper |                            |  |

|  |   |  |  |
|--|---|--|--|
|  | Colour paper<br>Letterhead<br>Pre-printed paper<br>Thin paper<br>Special paper<br>Envelopes |  |  |
|--|---|--|--|

### Security Specifications - SP 4520DN

|                  |  |  |  |
|------------------|--|--|--|
| Authentication   | Windows® authentication<br>LDAP authentication<br>User code authentication<br>802.1.x wired authentication |  |  |
| Network security | Disable/Enable ports and protocols<br>SSL support<br>SNMPv3 support  |  |  |

### Environmental Specifications - SP 4520DN

|   |                                       |                   |                       |
|---|---------------------------------------|-------------------|-----------------------|
| Sound power level (mainframe only)      | Stand-by                              | Less than 31 dB   |                       |
|   | Sleep mode                            | Less than 31 dB   |                       |
|   | Printing                              |                   |                       |
| Sound power level (full system)         | Stand-by                              | Less than 31 dB   |                       |
|   | Printing                              | Less than 71.5 dB |                       |
| Sound pressure level (mainframe only)   | Stand-by                              | Less than 20 dB   |                       |
|   | Printing                              | Less than 60.5 dB |                       |
| Sound pressure level (full system)      | Stand-by                              | Less than 20 dB   |                       |
|   | Printing                              | Less than 64.9 dB |                       |
| Power consumption                       | Maximum                               | 1,110 W           |                       |
|   | Sleep mode                            | 0.58 W            |                       |
|   | TEC (Typical Electricity Consumption) | 1.74 kWh          |                       |
|   | Energy Saver mode                     | 0.58 W            |                       |
| Material emission level (emission rate) | Ozone (Print)                         | BW                | < Limit of detection  |
|   | Dust (Print)                          | BW                | Operation: 0.83 mg/h  |
|   | Styrene (Print)                       | BW                | Operation: 0.051 mg/h |
|   | TVOC (Print)                          | BW                | Operation: 4.5 mg/h   |
|   | Benzene (Print)                       | BW                | < Limit of detection  |
| Environmental labels                    | ENERGY STAR version 2.0               |                   |                       |
|   | WEEE                                  |                   |                       |
|   | RoHS                                  |                   |                       |

### Peripheral Specifications - SP 4520DN

|                                   |                        |                           |  |
|-----------------------------------|------------------------|---------------------------|--|
| 2 x 250-sheet paper tray          | Paper size             | A4                        |  |
|                                   |                        | A5                        |  |
|                                   |                        | A6                        |  |
|                                   |                        | B5                        |  |
|                                   |                        | B6                        |  |
|                                   | Paper weight           | 52 - 162 g/m <sup>2</sup> |  |
|                                   | Paper output capacity  | 500 sheets                |  |
|                                   | Dimensions (W x D x H) | 370 x 392 x 190 mm        |  |
|                                   | Weight                 | 8.2 kg                    |  |
| 2 x 500-sheet paper tray          | Paper size             | A4                        |  |
|                                   |                        | A5                        |  |
|                                   |                        | A6                        |  |
|                                   |                        | B5                        |  |
|                                   |                        | B6                        |  |
|                                   | Paper weight           | 52 - 162 g/m <sup>2</sup> |  |
|                                   | Paper output capacity  | 1,000 sheets              |  |
|                                   | Dimensions (W x D x H) | 370 x 392 x 250 mm        |  |
|                                   | Weight                 | 9 kg                      |  |
| Medium cabinet                    |                        |                           |  |
| High cabinet                      |                        |                           |  |
| Hard Disk Drive                   | 320 GB                 |                           |  |
| RAM                               | 1,024 MB               |                           |  |
| Bi-directional IEEE 1284          |                        |                           |  |
| Wireless LAN (IEEE 802.11a/b/g/n) |                        |                           |  |
| VM Card                           |                        |                           |  |
| Netware                           |                        |                           |  |
| IPDS unit                         |                        |                           |  |
| Browser unit                      |                        |                           |  |
| XPS direct print                  |                        |                           |  |

### Consumable Specifications - SP 4520DN

|                                    |               |               |  |
|------------------------------------|---------------|---------------|--|
| Starter toner                      | Black         | 18,000 prints |  |
| Toner cartridge (ultra high yield) | Black         | 18,000 prints |  |
| Drum                               | 40,000 sheets |               |  |

Consumable yield measuring method ISO/IEC 19752



| General Specifications - MP 401SPF |  |  |                      |
|------------------------------------|--|--|----------------------|
| Warm-up time                       | 14 seconds   |  |                      |
| First output speed                 | B/W  | 5.2 seconds                                      |                      |
| Continuous output speed            | A4   | 40 pages per minute                              |                      |
|                                    | A4 duplex  | 35 pages per minute                              |                      |
| One to one copy speed              | B/W  | A4   | 40 copies per minute |
|                                    |  | A4 duplex  | 35 copies per minute |
| Memory                             | Standard   | 1,024 MB   |                      |
|                                    | Maximum  | 1,536 MB   |                      |
| HDD                                | Option   | 320 GB (Encryption/Data Overwrite Security unit) |                      |
| Reproduction ratio                 | 200%   |  |                      |
|                                    | 141%   |  |                      |
|                                    | 100%   |  |                      |
|                                    | 93%  |  |                      |
|                                    | 71%  |  |                      |
|                                    | 50%  |  |                      |
| Zoom                               | From 25% to 400% in 1% step  |  |                      |
| Enhanced features                  | Combine  | 2 into 1 simplex                                 |                      |
|                                    |  | 4 into 1 simplex                                 |                      |
|                                    |  | 1 duplex into 1 simplex                          |                      |
|                                    |  | 2 duplex into 1 simplex                          |                      |
|                                    |  | 4 into 1 duplex                                  |                      |
|                                    |  | 8 into 1 duplex                                  |                      |
|                                    | Shift/erase/marging adjustment<br>Image rotation<br>Zooming<br>Mail to print | 2 duplex into 1 duplex                           |                      |
|                                    |  | 4 duplex into 1 duplex                           |                      |
|                                    |  | Margin adjustment                                |                      |
|                                    |  |  |                      |
|                                    |  |  |                      |
|                                    |  |  |                      |
| Dimensions (W x D x H)             | 419 x 427 x 484 mm   |  |                      |
| Weight                             | 23 kg  |  |                      |

| Copier Specifications - MP 401SPF |                  |                                      |  |
|-----------------------------------|------------------|--------------------------------------|--|
| Multiple copying                  | Up to 99 copies  |                                      |  |
| Resolution                        | 300 x 600 dpi    |                                      |  |
|                                   | 600 x 600 dpi    |                                      |  |
| Enhanced features                 | Copy mode        | Default = Text                       |  |
|                                   | Auto tray switch |                                      |  |
|                                   | Duplex           |                                      |  |
|                                   | Series           | 2 Sided original to simplex          |  |
|                                   | Combine          | 2 into 1 simplex<br>4 into 1 simplex |  |



|                       |   |   |  |
|-----------------------|---|---|--|
| Network protocol      | TCP/IP<br><br>IPX/SPX (option)  | IP v4<br><br>IP v6  |  |
| Windows® environments | Windows® Vista<br>Windows® 7<br>Windows® 8<br>Windows® Server 2003<br>Windows® Server 2008<br>Windows® Server 2012  |   |  |
| Mac OS environments   | Macintosh OS X v10.5 or later   |   |  |
| UNIX environments     | UNIX Sun® Solaris<br><br><br><br><br><br>HP-UX<br><br><br>SCO OpenServer<br><br><br>RedHat® Linux Enterprise<br><br><br>IBM® AIX<br><br>Printer driver features | 2.6<br>2.7<br>2.8<br>2.9<br>2.10<br>10.x<br>11.x<br>11i v2<br>11i v3<br>5.0.6<br>5.0.7<br>6.0<br>4<br>5<br>6<br>5L v5.3<br>5L v6.1<br>5L v7.1<br>Sample print<br>Locked print<br>Hold print<br>Stored print<br>Store and print<br>Reduce/enlarge(zoom/scaling)<br>Layout (N-up, page per sheet)<br>Duplex<br>Collate<br>Rotate by 180 degrees<br>User ID<br>User code |  |

### Scanner Specifications - MP 401SPF

|                      |  |   |  |
|----------------------|--|---|--|
| Scanning speed       | 200 dpi  | Full colour<br>B/W  | A4, Max 30 originals per minute<br>A4, Max 30 originals per minute   |
|                      | 300 dpi  | Full colour<br>B/W  | A4, Max 30 originals per minute<br>A4, Max 30 originals per minute   |
| Resolution           | Standard   | 100 dpi<br>200 dpi<br>300 dpi<br>600 dpi  |  |
|                      | Default  | 200 dpi   |  |
| Scanning area        | Main scan  | 216 mm  |  |
|                      | Sub scan   | 297 mm  |  |
| Network interface    | Ethernet 10 base-T/100 base-TX<br>GigaEther (1000 base-T)<br>Wireless LAN (IEEE 802.11a/b/g/n) (Option)  |   |  |
| File format          | Single page TIFF<br>Single page JPEG<br>Single page PDF<br>Single page High compression PDF<br>Single page PDF-A<br>Multi page TIFF<br>Multi page PDF<br>Multi page High compression PDF<br>Multi page PDF-A<br>High compression PDF |   |  |
| Network TWAIN Driver | OS   | Windows® XP<br>Windows® Vista<br>Windows 7<br>Windows 8<br>Windows® Server 2003<br>Windows® Server 2008<br>Windows® Server 2008R2<br>Windows® Server 2012 |  |
|                      | Resolution   | Colour<br><br>B/W   | Book, 100 - 1,200 dpi<br>ARDF, 100 - 600 dpi<br>Book, 100 - 1,200 dpi<br>ARDF, 100 - 600 dpi               |
|                      | Scanning speed   | 200 dpi<br><br>300 dpi  | Full Colour, A4, Simplex, 24 ipm<br>B/W, A4, Simplex, 24 ipm<br>Full Colour, A4, 16 ipm<br>B/W, A4, 16 ipm |

|                  |   |   |  |
|------------------|---|---|--|
|                  | Scan mode   | Standard<br>Photo<br>OCR<br>Filing  |  |
|                  | Image adjustment  | Brightness<br>Contrast<br>Threshold<br>Gamma adjustment<br>Halftone pattern   |  |
|                  | No  |   |  |
| Scanner features | Scan to USB/SD<br>WS-Scanner<br>Scanned file naming<br>Scan file type selection<br><br>LDAP Support<br><br>Preview before transmission (TX Preview)<br>PDF encryption<br>Drop out colour send<br>Twain Scan<br>Universal send (simultaneous Fax & Scan) | Single TIFF<br>Single JPEG (Grey Scale)<br>Single PDF<br>Single High Compression PDF<br>Multi Page TIFF/PDF<br>Multi page High Compression PDF<br>E-mail address search<br>Fax address search |  |
| Scan to          | E-mail<br>Folder<br>FTP<br>URL (Option)<br>NCP (Option)   |   |  |

### Fax Specifications - MP 401SPF

|                    |                                 |  |  |
|--------------------|---------------------------------|--|--|
| Circuit            | PSTN<br>PBX                     |  |  |
| Compatibility      | G3                              |  |  |
| Resolution         | 8 x 3.85 line/mm, 200 x 200 dpi |  |  |
| Compression method | MH<br>MR<br>MMR                 |  |  |

|                    |  |   |  |
|--------------------|--|---|--|
| Transmission speed | JBIG<br>G3   | 2 second(s)   |  |
| Modem speed        | Maximum  | 33.6 Kbps   |  |
| Memory backup      | Yes  | 12 hour   |  |
| SAF memory size    | Standard   | 4 MB  |  |
| Fax features       | Smoothing<br>TTI/RTI<br>CSI<br>Quick dial<br>Speed dial<br>Group dial<br>Program<br>Redial<br>Direct fax number entry<br>Dual access<br>User code<br>Page counter<br>Wild cards<br>Summer time<br>Memory Lock ID Code<br>User function key<br>Energy saver<br>LCD prompt<br>Remaining memory indication<br>Clock adjustment<br>User parameter settings | 1,000 numbers<br><br>100 groups<br><br><br><br><br><br><br><br><br>3 keys |  |

| Paper Specifications - MP 401SPF |                        |                            |  |
|----------------------------------|------------------------|----------------------------|--|
| Recommended paper size           | Standard paper tray(s) | A4<br>A5<br>A6<br>B5<br>B6 |  |
|                                  | Bypass tray            | A4<br>A5<br>A6<br>B5<br>B6 |  |
| Paper input capacity             | Standard               | 600 sheets                 |  |
|                                  | Maximum                | 1,600 sheets               |  |
| Paper output capacity            | Standard               | 250 sheets                 |  |



|              |               |                           |  |
|--------------|---------------|---------------------------|--|
| Paper weight | Paper tray(s) | 52 - 162 g/m <sup>2</sup> |  |
|              | Bypass tray   | 52 - 162 g/m <sup>2</sup> |  |

### Security Specifications - MP 401SPF

|   |   |          |  |
|---|---|----------|--|
| HDD Data Overwrite Security (with optional HDD) | Option Type I   |          |  |
| Authentication                                  | Windows® authentication<br>LDAP authentication<br>Basic authentication<br>User code authentication<br>802.1.x wired authentication    | Kerberos |  |
| Encryption                                      | Address book encryption<br>Authentication password encryption<br>SSL communication<br>S/MIME<br>IPsec communication<br>HDD encryption |          |  |
| Secure print                                    |   |          |  |
| Copy Data Security Unit option                  | Type G  |          |  |
| Unauthorised copy prevention (print)            |   |          |  |

### Environmental Specifications - MP 401SPF

|   |                                       |                   |                       |
|---|---------------------------------------|-------------------|-----------------------|
| Sound power level (mainframe only)      | Stand-by                              | Less than 31.1 dB |                       |
|   | Copying                               | 68.9 dB           |                       |
| Sound power level (full system)         | Copying                               | 72 dB             |                       |
| Sound pressure level (mainframe only)   | Stand-by                              | Less than 18.9 dB |                       |
|   | Copying                               | 63.3 dB           |                       |
| Sound pressure level (full system)      | Copying                               | 66.3 dB           |                       |
| Power consumption                       | Maximum                               | 1,140 W           |                       |
|   | Ready mode                            | 97.2 W            |                       |
|   | Sleep mode                            | 0.72 W            |                       |
|   | TEC (Typical Electricity Consumption) | 1,759 Wh          |                       |
| Material emission level (emission rate) | Ozone (Print)                         | BW                | < Limit of detection  |
|   | Dust (Print)                          | BW                | Operation: 0.83 mg/h  |
|   | Styrene (Print)                       | BW                | Operation: 0.051 mg/h |
|   | TVOC (Print)                          | BW                | Operation: 4.5 mg/h   |
|   | TVOC (Ready)                          | Desktop           | Operation: 0.065 mg/h |
|   | Benzene (Print)                       | BW                | < Limit of detection  |

|  |                         |                   |  |
|--|-------------------------|-------------------|--|
| Environmental labels/ENERGY STAR certification | ENERGY STAR version 2.0 |                   |  |
| Storage conditions                             | Temperature             | 30°C - 40°C       |  |
|  | Humidity                | 15% - 85%         |  |
|  | Storage period          | Maximum 12 months |  |
|  | Maximum stack           | 6 cartons         |  |
| Transportation conditions                      | Temperature             | 30 - 50°C         |  |
|  | Humidity                | Less than 90%     |  |
|  | Maximum stack           | 3 cartons         |  |

### Peripheral Specifications - MP 401SPF

|                                   |        |  |  |
|-----------------------------------|--------|--|--|
| 2 x 250-sheet paper tray          |        |  |  |
| 2 x 500-sheet paper tray          |        |  |  |
| Cabinet                           |        |  |  |
| Hard Disk Drive                   |        |  |  |
| RAM                               | 1.5 GB |  |  |
| Bi-directional IEEE 1284          |        |  |  |
| Wireless LAN (IEEE 802.11a/b/g/n) |        |  |  |
| Bluetooth                         |        |  |  |
| VM Card                           |        |  |  |
| Browser unit                      |        |  |  |
| Counter interface                 |        |  |  |
| File format converter             |        |  |  |
| Copy Data Security Unit           |        |  |  |
| Unicode Font Package for SAP      |        |  |  |
| OCR Unit                          |        |  |  |
| XPS direct print                  |        |  |  |
| Font SD card                      |        |  |  |

### Consumable Specifications - MP 401SPF

|                                    |       |               |  |
|------------------------------------|-------|---------------|--|
| Starter toner                      | Black | 18,000 prints |  |
| Toner cartridge (ultra high yield) | Black | 18,000 prints |  |

Consumable yield measuring method ISO/IEC 19752

## 8. Service and Supplies

- Pay-per-Page servicing (and not user self maintenance)
- Low total cost of ownership
- Transparent, all-inclusive service pricing
- 10,000 page maximum recommended volume
- 150,000 page duty cycle (peak volume loading)
- Supports @Remote monitoring and Universal Print driver

SP 4520DN and MP 401SPF are likely deployed as part of a managed workflow solution alongside other ~~Nashuatec~~ GWNX products, and should be serviced on a toner inclusive Pay per Page (PpP) basis.

PpP servicing offers the following customer advantages:

- Transparent pricing
- Includes toner, parts and servicing
- Pre-agreed page cost
- Metered pay as you go billing

A new high yield toner cartridge, introduced for these models, helps to reduce service costs. The high yield toner cartridge is not compatible with SP 4510DN or SP 4510SF.

The average monthly print volume of devices in this class is 3,000 pages. With recommended maximum monthly print volumes of 10,000 pages, SP 4520DN and MP 401SPF will easily meet typical requirements and, with duty cycles of 150,000 pages, can also reliably handle occasional large peaks in demand.



Using @Remote, the devices can be monitored in real-time with the ~~Nashuatec~~ service operation able to identify issues before they become apparent to users and deliver service and consumable items, such as toner, in advance of need.

Service and Supplies Specifications - SP 4520DN and MP 401SPF

| Item         | Product Name                                    | Quantity and Yield  |
|--------------|---|---|
| Toner Black  | Print Cartridge MP 401                          | 10,400 pages (MFP) <sup>*1</sup><br>11,900 pages (Printer) <sup>*2</sup><br>18,000 prints (MFP/Printer) <sup>*3</sup> |
| Print Volume | Average Monthly                                 | 3,000 prints  |
|              | Maximum Monthly                                 | 10,000 prints   |
|              | Duty Cycle                                      | 150,000 prints  |
| Machine Life | 5 years or 600,000 prints whichever comes first |   |

<sup>\*1</sup> A4, 6% coverage, 3p/j

<sup>\*2</sup> A4, 5% coverage, 3p/j

<sup>\*3</sup> ISO/IEC 19752

## 9. Competition

- More productive (faster first page out and faster throughput)
- More durable (larger duty cycle)
- More compact (smaller footprint)
- Superior image quality (1,200 x 1,200 dpi resolution at full speed)
- Easier to use (colour touchscreen operation panel)
- Best-in-class (lowest) TEC rating (typical electricity consumption)

We have compared the specifications of the new printer and MFP against the specifications of its closest competitors, identifying advantages against each.

Data was obtained from the web and from brochures. Whilst care was taken to ensure that information is accurate, no liability will be accepted for errors and omissions.

The models compared are:

**SP 4520DN**

Versus

Kyocera FS2100 DN  
 Kyocera FS4100 DN  
 HP LaserJet Enterprise P3015DN  
 Lexmark MS510 DN

| Nashuatec SP 4520DN vs. Kyocera ECOSYS FS 2100 DN     |  |
|---|--|
| Nashuatec SP4520DN Strengths                          | Kyocera ECOSYS FS 2100 DN Strengths                |
| Panel (Touch panel vs. 5 line LCD)                    | Noise level (53dB vs. 60.5dB)                      |
| First Print (5 sec or less vs. 9 sec)                 | Max paper capacity (2,600 sheets vs. 1,600 sheets) |
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm)       | Weight (13.5 kg vs. 14 kg)                         |
| Footprint (370 x 392 x 306 mm vs. 382 x 416 x 285 mm) | Warm-up Time (15 sec vs. 17 sec)                   |
| TEC-value (1,74 kWh vs. 2,16 kWh)                     |  |
| Paper output (600 sheets vs. 350 sheets)              |  |
| Optional HDD (320 GB vs. 32GB)                        |  |



| Nashuatec SP 4520DN vs. Kyocera Ecosys FS 4100 DN |                                     |
|---|-------------------------------------|
| Nashuatec SP4520DN Strengths                      | Kyocera ECOSYS FS 4100 DN Strengths |
| Panel (Touch panel vs. 5 line LCD)                | Print Speed (45 ppm vs. 40 ppm)     |
| First Print (5 sec or less vs. 9 sec)             | Noise level (54dB vs. 60.5dB)       |

|   |  |
|---|--|
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm)       | Max paper capacity (2,600 sheets vs. 1,600 sheets) |
| Footprint (370 x 392 x 306 mm vs. 382 x 416 x 285 mm) | Weight (13.5 kg vs. 14 kg)                         |
| TEC-value (1,74 kWh vs. 2,16 kWh)                     | Warm-up Time (15 sec vs. 17 sec)                   |
| Optional HDD (320 GB vs. 32GB)                        |  |



| Nashuatec SP 4520DN vs. HP Laserjet P3015DN                      |   |
|--|---|
| Nashuatec SP4520DN Strengths                                     | HP Laserjet P3015DN Strengths                         |
| Panel (Touch panel vs. 4 line LCD)                               | Noise level (54dB vs. 60.5dB)                         |
| Monthly Duty Cycle (150,000 impressions vs. 100,000 impressions) | Bypass Paper Weight (60 to 199 gsm vs. 52 to 162 gsm) |
| First Print (5 sec or less vs. 7.5 sec)                          |   |
| Footprint (370 x 392 x 306 mm vs. 448 x 412 x 316 mm)            |   |
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm)                  |   |
| TEC-value (1,74 kWh vs. 3,27 kWh)                                |   |
| Sleep mode (0.58 Watt vs. 8.6 Watt)                              |   |
| Weight (14 kg vs. 16 kg)   |   |
| Energy star compliance (Yes vs. No)                              |   |



| Nashuatec SP 4520DN vs. Lexmark MS 510 DN       |  |
|---|--|
| Nashuatec SP 4520DN Strengths                   | Lexmark MS 510 DN Strengths                      |
| Panel (Touch panel vs. 4 line LCD)              | Noise level (55 dB vs. 60.5 dB)                  |
| First Print (5 sec or less vs. 6.5 sec)         | Print speed (42 ppm vs. 40 ppm)                  |
| Paper output (600 sheets vs. 350 sheets)        | Max paper capacity (2000 sheets vs. 1600 sheets) |
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm) |  |
| TEC-value (1,74 kWh vs. 2.39 kWh)               |  |
| Sleep mode (0.56 Watt vs. 5 Watt)               |  |
| Optional HDD (320 GB vs. No option)             |  |



**MP 401SPF**

Versus

Canon iR Advance 400i  
Kyocera Ecosys M2535dn  
Kyocera Ecosys M3040(i)dn  
Kyocera Ecosys M3540(i)dn  
HP M525f  
Samsung M4075FX  
Lexmark MX510de  
Lexmark MX511de  
Konica Minolta bizhub 4020  
Konica Minolta bizhub 4050

### Nashuatec MP 401SPF vs. Canon iR ADVANCE 400i

| Nashuatec MP 401SPF Strengths                   | Canon iR ADVANCE 400i(40) Strengths |
|---|-------------------------------------|
| Warm-up Time (19 sec vs. 34 sec)                | First Copy Time (5 sec vs, 6 sec)   |
| Paper Weights (52 to 162 gsm vs. 64 to 128 gsm) |                                     |
| Encrypted PDF Mode                              |                                     |
| Weight (22.5 kg vs. 47.9 kg)                    |                                     |
| TEC Value (1,759 Wh vs. 1,873 Wh)               |                                     |
| Operating Noise Level (66dB vs. 73dB)           |                                     |



### Nashuatec MP 401SPF vs. Kyocera Ecosys M2535dn

| Nashuatec MP 401SPF Strengths                           | Kyocera Ecosys M2535dn Strengths |
|---|----------------------------------|
| Max Monthly Duty Cycle (150,000 vs. 50,000 impressions) | Weight (22.5 kg vs. 18 kg)       |
| First Copy Time 6 sec or less vs. 6.9 sec)              |                                  |
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm)         |                                  |
| Max Paper Capacity (1,600 sheets vs. 800 sheets)        |                                  |
| Encrypted PDF Mode                                      |                                  |





### Nashuatec MP 401SPF vs. Kyocera Ecosys M3040(i)dn

| Nashuatec MP 401SPF Strengths                   | Kyocera Ecosys M3040(i)dn Strengths                       |
|---|---|
| First Copy Time (6 sec vs. 9 sec)               | Recommended Monthly Volume (15,000 vs. 3,000 impressions) |
| Warm-up Time (19 sec vs. 21 sec)                | Max Paper Capacity (2,600 sheets vs. 1,600 sheets)        |
| Paper Weights (52 to 162 gsm vs. 60 to 120 gsm) |   |



### Nashuatec MP 401SPF vs. Kyocera Ecosys M3540(i)dn

| Nashuatec MP 401SPF Strengths             | Kyocera Ecosys M3540(i)dn (40) Strengths                  |
|---|---|
| First Copy Time (6 sec or less vs. 9 sec) | Recommended Monthly Volume (15,000 vs. 3,000 impressions) |
| Warm-up Time (19 sec vs. 21 sec)          | Max Paper Capacity (1,600 sheets vs. 2,600 sheets)        |



### Nashuatec MP 401SPF vs. HP M525f

| Nashuatec MP 401SPF Strengths                           | HP M525f Strengths                                      |
|---|---|
| Max Monthly Duty Cycle (150,000 vs. 75,000 impressions) | Recommended Monthly Volume (6,000 vs 3,000 impressions) |
| First Copy Time (6 sec or less vs. 8.5 sec)             | Mac Address Filtering                                   |
| Paper Weights (52 to 162 gsm vs. 52 to 120 gsm)         |   |
| Weight (22.5 kg vs. 29 kg)                              |   |



### Nashuatec MP 401SPF vs. Samsung M4370LX

| Nashuatec MP 401SPF Strengths                   | Samsung M4370LX Strengths                                |
|---|--|
| Warm up time (14 sec vs. 60 sec)                | Max Monthly Duty Cycle (150,000 vs. 250,000 impressions) |
| Paper Weights (52 to 162 gsm vs. 60 to 163 gsm) | First Copy time (6 sec vs. 5 sec)                        |
| Weight (22.5 kg vs. 49 kg)                      | Max Paper Capacity (1,600 sheets vs. 3,240 sheets)       |
| TEC Value (1,759 Wh vs. 3,400 Wh)               |  |



### Nashuatec MP 401SPF vs. Lexmark MX510de

| Nashuatec MP 401SPF Strengths                            | Lexmark MX510de Strengths                                 |
|--|---|
| Max Monthly Duty Cycle (150,000 vs. 100,000 impressions) | Recommended Monthly Volume (12,000 vs. 3,000 impressions) |
| Paper Weights (52 to 162 to 60 to 120 gsm)               | Max Paper Capacity (2,000 sheets vs. 1,600 sheets)        |
|  | Weight (21.8 kg vs. 22.5 kg)                              |



### Nashuatec MP 401SPF vs. Lexmark MX511de

| Nashuatec MP 401SPF Strengths                            | Lexmark MX511de Strengths                                 |
|--|---|
| Max Monthly Duty Cycle (150,000 vs. 100,000 impressions) | Recommended Monthly Volume (12,000 vs. 3,000 impressions) |
| Paper Weights (52 to 162 to 60 to 120 gsm)               | Max Paper Capacity (2,000 sheets vs. 1,600 sheets)        |
|  | Weight (21.8 kg vs. 22.5 kg)                              |



### Nashuatec MP 401SPF vs. Konica Minolta bizhub 4020

| Nashuatec MP 401SPF Strengths                            | Konica Minolta bizhub 4020 Strengths                     |
|--|--|
| Max Monthly Duty Cycle (150,000 vs. 100,000 impressions) | Recommended Monthly Volume (3,600 vs. 3,000 impressions) |
| First Copy Time (6 sec or less vs. 6.5 sec)              | Max Paper Capacity (2,000 sheets vs. 1,600 sheets)       |
| Paper Weight (52 to 162 gsm vs. 60 to 120 gsm)           | Weight (21.8 kg vs. 22.5 kg)                             |



### Nashuatec MP 401SPF vs. Konica Minolta bizhub 4050

| Nashuatec MP 401SPF Strengths                            | Konica Minolta bizhub 4050 Strengths                     |
|--|--|
| Paper Weight (52 to 162 gsm vs. 60 to 120 gsm)           | Warm-up Time (77 sec vs. 19 sec)                         |
| Weight (22.5 kg vs. 24 kg)                               | Recommended Monthly Volume (6,500 vs. 3,000 impressions) |
| Max Monthly Duty Cycle (150,000 vs. 100,000 impressions) | Max Paper Capacity (2,300 sheets vs. 1,600 sheets)       |
| First Copy Time (6 sec or less vs. 8.5 sec)              |  |
| Warm-up Time (19 sec vs. 77 sec)                         |  |
| Weight (22.5 kg vs. 24 kg)                               |  |



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