Cut Checks, Not Results

Your check printing applications require the highest levels of security, accuracy and consistency. Rosetta Technologies combines best-in-class MICR toner and software technology with Ricoh’s award-winning printer hardware. The result is a family of check printing solutions that exceeds industry standards. Whether you are printing payroll, accounts payable, claims checks, or generating checks for your customers, Rosetta Technologies and Ricoh have solutions that simplify workflows while making your check printing applications more secure.

Designed in partnership with Ricoh, the SP 4510DNM MICR Printer is a powerhouse of productivity. This compact 42-ppm printer employs Ricoh’s innovative LED imaging technology for outstanding print quality without sacrificing speed. Packed with industry-standard security capabilities, a number of eco-friendly features, plus separate drum and toner supplies to minimize total cost of ownership, the expandable SP 4510DNM stands ready whether you are printing 100 or 10,000 checks every month. Rosetta wraps this robust engine around our industry-leading MICR experience to further reduce costs through more accurate read rates for an unbeatable combination of value and performance.

High speed, high resolution MICR printing

The SP 4510DNM is built on a powerful 533 MHz processor with 512 GB RAM. A fast first print time of 5 seconds and a continuous output speed of 42-ppm (Letter) keeps the pages flowing. The SP 4510DNM won’t slow down, even when printing at true 1200 x 1200 dpi, thanks to Ricoh’s LED imaging technology. Need help or new to check printing workflows? Check out our CheckStream™ solution. It automates the check printing process and eliminates the need for pre-printed check stock.

Expandable and energy efficient

Print with confidence at the lowest possible cost. In addition to standard automatic duplexing to save paper, you can boost media capacity up to 1,600 sheets to print extended runs onto 24 lb. check stock and 28 lb. pressure seal check stock without interruption. The SP 4510DNM offers innovative Eco Night Sensor technology that shuts the printer down when the room goes dark – never accidentally leave the printer on overnight again!

Optimized MICR fonts and toner for ultra-reliable performance

A standing member of the X9-B Committee, Rosetta Technologies continually works on MICR toner formulation and font characteristics to guarantee adherence to national and international MICR industry standards. Sharp characters, high signal strength, and excellent adhesion are the hallmarks of successful MICR read rates, and that’s exactly what we deliver in the SP 4510DNM. A unique two-part supply system allows you to replace just the toner, the OPC drum, or both.

Feature-rich security

The SP 4510DNM provides a number of standard and optional security features to protect valuable data streams. Step out from under proprietary workflows that offer only minimal protection. The SP 4510DNM incorporates open standards for device access and data encryption including 1,000 User Codes, 128-bit AES data encryption, Locked Print, IP Address Filtering, SHA-2 compliance and more to prevent information theft and falsification. Integrated paper tray locks are available to prevent unauthorized access to check stock.

SP 4510DNM MICR Printer Product Configurations

The SP 4510DNM MICR Printer is available in five configurations. Each can be customized with expanded memory and paper supply options to meet your unique needs.

- **SP 4510DNM MICR Printer**
  - 500-sheet tray +
  - 100-sheet Bypass
  - 512 GB RAM

- **SP 4510DNM Secure**
  - Secure model plus:
  - 320 GB Hard Disk Drive
  - Locked Print, Data Encryption and Overwrite

- **SP 4510DNM GUARDIAN**
  - Secure model plus:
  - Genuine IPDS
  - 1 GB RAM
  - 320 GB Hard Disk Drive

- **SP 4510DNM IPDS**
  - Standard model plus:
  - Genuine IPDS
  - 1 GB RAM

- **SP 4510DNM IPDS Secure**
  - IPDS model plus:
  - Locking Paper Tray
Fast and affordable general office printing

Rosetta understands that your business needs to print more than checks. Simply exchange the MICR toner cartridge and drum unit assembly for a Standard one, and you can leverage your investment in the SP 4510DNM MICR Printer to execute daily workgroup printing applications.

Take advantage of all the SP 4510DNM’s built-in efficiency and security features for high-speed duplex printing at 1200 x 1200 dpi onto plain paper up to 8.5” x 14”. The easy-to-use SP 4510DNM offers intuitive drivers for point-and-click PCL and genuine Adobe PostScript®3™ printing, along with dozens of resident fonts and support for the latest Windows and Macintosh environments. Use the hard disk drive for secure local document storage and print-on-demand for up to 9,000 pages of information.

The 4-line LCD control panel provides for at-a-glance job and system status.

The two-part supply combines the compactness of All-In-One print cartridge technology with the cost-per-page of separate drum and toner supplies.

Looking for a best-in-class MICR printing solution that doubles as a high-resolution productive workgroup printer? You found it in the Rosetta SP 4510DNM MICR Printer.

Rosetta MICR Quality Guarantee: Guaranteed ANSI, ABA, and Canadian Payments Association Acceptance Standards If Using Rosetta Technologies’ Approved Check Stock, Supplies, MICR Fonts & Authorized Service.

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**SP 4510DNM MICR Printer System Specifications**

**GENERAL**

- **Configuration/Type:** Desktop/Monochrome
- **Imaging Technology:** LED array with electro-photographic printing
- **Toner Type:** Dry single component MICR toner
- **Switchable with standard toner**
- **Recommended Volume:** Up to 10,000 prints/month
- **Maximum Duty Cycle:** Up to 150,000 prints/month
- **Print Resolution:** 1200 x 1200 dpi, 600 x 600 dpi, 300 x 300 dpi
- **1st Print Speed:** 5 seconds or less
- **Continuous Print Speed:** 42 pages per minute (Letter)
- **Dimensions (WxDxH):** 14.6” x 15.4” x 12” (370 x 392 x 306 mm)
- **Weight:** 34.2 lbs. (15.5 kg)
- **Power Requirements:** 120V, 60Hz, 10A

**MEDIA HANDLING**

- **Standard Capacity:** 500-sheet Tray x 1 + 100-sheet Bypass
- **Optional Tray:** Add one 250-sheet Paper Feed Unit or add one or two 500-sheet Paper Feed Units
- **Maximum Capacity:** Up to 1,600 sheets

**Automatic Duplex:** Standard

**Output Capacity:** 250 sheets (face down)

- **Paper Sizes (Min – Max):**
  - Std./Opt. Trays: 3.94” x 5.83” to 8.5” x 14” (100 x 148 mm to 216 x 356 mm)
  - Bypass Tray: 2.3” x 5” to 8.5” x 35.5” (60 x 127 mm to 216 x 900 mm)
  - Paper Weight: 14 - 43 lb. Bond / 90 lb. Index (52 - 162 g/m²)

**Paper Types**

- **Std./Opt. Trays:** 24 lb. Check Stock, 28 lb. Pressure Seal Stock, Bond, Colored, Letterhead Plain, Preprinted, Recycled, Thick, and Thin papers
- **Bypass:** Above plus Labels, Envelopes, OHP Transparency

**CONTROLLER**

- **CPU:** 533 MHz
- **Memory (Std./Max.):** 512 MB RAM / 1 GB RAM
- **Hard Disk Drive:** 320 GB (Optional)
- **Page Description Languages Standard:** PCL 5e, PCL 6, PostScript®3™, PDF Direct Print
- **Optional:** Genuine IBM IPDS
- **Fonts Standard:** PCL: 45 fonts + 13 International fonts
- **Optional:** PostScript3: 136 fonts, MICR: E13B, CM7C

**Network Interfaces**

- **Standard:** 10/100/1000Base-TX Ethernet (RJ-45), USB 2.0 Type B, USB 2.0 Host Type A
- **Optional:** IEEE 802.11 a/b/g/n Wireless LAN, IEEE 1284/ECP Parallel Network Protocol:
  - TCP/IP (IPv4, IPv6)
- **Network O/S Support:** Windows XP, Vista, 7, 8/8.1, Server 2003/2008-R2/2012-R2
- **Mac OS X v.10.5+, Various UNIX/Linux O/S**

**Utilities:** Rosetta Print Manager, CheckStream, @Remote, Device Manager NX, SmartDeviceMonitor, Web Image Monitor

**SECURITY FEATURES**


*HDD required

**CONSUMABLES & YIELDS**

<table>
<thead>
<tr>
<th>Consumable Type</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICR Toner Cartridge 104S1000</td>
<td>10,000 pages*</td>
</tr>
<tr>
<td>MICR Toner Cartridge 104S1001</td>
<td>6,000 pages*</td>
</tr>
<tr>
<td>MICR Photo Conductor Unit 104S1002</td>
<td>20,000 pages***</td>
</tr>
<tr>
<td>Standard Toner Cartridge SP 4500LA</td>
<td>3,000 pages**</td>
</tr>
<tr>
<td>Standard Toner Cartridge SP 4500A</td>
<td>6,000 pages**</td>
</tr>
<tr>
<td>Standard Toner Cartridge SP 4500HA</td>
<td>12,000 pages**</td>
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<tr>
<td>Photo Conductor Unit SP 4500</td>
<td>20,000 pages***</td>
</tr>
<tr>
<td>Maintenance Kit SP 4500</td>
<td>120,000 pages</td>
</tr>
</tbody>
</table>

*Declared yield values for MICR toner cartridges based on 4% coverage.
**Declared yield values for standard toner cartridges based on ISO/IEC 19752.
***Photocartridge Unit yield based on 5% coverage, 3 pages/job. Actual yields may vary based on types of images printed and other factors. For maximum performance and yield we recommend using genuine Rosetta MICR toner supplies.

The SP 4510DN MICR ships with a starter MICR toner cartridge yielding 6,000 pages. Specifications are subject to change without notice.