

PRODUCTION MICR PRINTERS | RICOH AND ROSETTA TECHNOLOGIES

Pro 8310M and Pro 8320M production MICR printers

111-ppm and 136-ppm production-class MICR laser printers from Ricoh and Rosetta Technologies, rated for up to 1,000,000 impressions per month.



INSIDE

- 111 and 136 pages per minute, up to 1,000,000 impressions per month
- Up to eight media pick points and 12,600 sheets of input capacity
- ProMark™ MICR toner, certified E-13B and CMC-7 fonts, guaranteed

THE BOTTOM LINE

The Pro 8310M and Pro 8320M are 111-ppm and 136-ppm production-class MICR laser printers rated for up to 1,000,000 impressions per month. Modular input and output options take capacity from 3,300 to 12,600 sheets. Every document they print is guaranteed to meet ANSI, ABA and Canadian Payments Association standards when you use our approved check stock, supplies, MICR fonts and authorized service.

111 / 136 Pages per minute, Pro 8310M / Pro 8320M	1,000,000 Impressions per month, maximum print volume	12,600 Sheets of maximum media capacity	1200 x 4800 dpi with Ricoh VCSEL technology
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KNOWLEDGE TRANSLATED

Get the most out of your MICR investment

With the Pro 8310M and Pro 8320M production MICR printing systems from Ricoh and Rosetta Technologies you get the most out of your investment: the most volume, the most uptime, the most security and, most importantly, the highest quality MICR documents at a low total cost of ownership.

Every successful print production environment relies on maximum speed, capacity, reliability and high duty cycles. A successful MICR print production environment needs all of these plus consistent end-to-end MICR output quality. We combine our MICR toner and expert technology with Ricoh's award-winning print production hardware to deliver MICR printing solutions that exceed industry standards. Designed in partnership with industry leader Ricoh, these modular systems deliver the speed and media input and output capacity for longer runs with fewer interruptions.

Our engineers transform every Pro 8310M and Pro 8320M MICR print engine. Each printer undergoes a meticulous conversion that makes the system a MICR-ready solution. Our MICR toners are specially formulated and our MICR fonts specifically designed for optimal quality. We guarantee that every document you print will meet ANSI, ABA and Canadian Payments Acceptance standards for adhesion, signal strength, character sharpness and read rates.

1,000,000 checks a month, or entire EOBs with claim checks attached

Whatever you print, Rosetta Technologies has the knowledge and technology solutions, backed by over 20 years of industry experience, to make your MICR applications run smoothly. Rosetta Technologies plus Ricoh: a most attractive combination.

APPLICATIONS

One printer line for every MICR application

Check printing and check writing

Check creation is one of the most demanding print applications, with strict tolerances for font character clarity, placement, adhesion and signal strength range. Our patented ProMark MICR toner and optimized E-13B and CMC-7 MICR fonts stand up to dozens of passes through high speed reader-sorter machines. ProMark adhesion reduces failure rates and prevents toner transfer to read/write heads that can grind check processing to a halt.

IRD and CRD printing

An Image Replacement Document (IRD) or Clearings Replacement Document (CRD) is a paper substitute for an original check that may have been destroyed after image capture. Because IRDs and CRDs are, by law, negotiable documents like checks, they must also be printed with MICR toner. We offer end-to-end IRD and CRD printing solutions, including our X9Print™ software with ProMark MICR toner, to convert image cash letter files into standards-compliant IRDs and CRDs on the Pro 8310M and Pro 8320M.

TransPromo MICR printing

We make it easy to combine the power of customized communications and MICR printing. Create high volumes of promotional incentives, healthcare reimbursement checks, insurance claims checks and other forms of reimbursement at little incremental cost.

Combined with our software, including CheckStream® check printing software and the Rosetta Technologies Print Manager, the Pro 8310M and Pro 8320M MICR printers form a robust, consistent end-to-end solution. Print checks onto all types of media, including check stock, pressure seal and IRD paper.

MODULAR BY DESIGN

Versatile solutions for your high volume environment

The modular Pro 8310M and Pro 8320M can be configured with a range of input and output options to run virtually any MICR print workflow.

More media, fewer stops

Boost the standard 3,300-sheet paper capacity to a maximum of 12,600 sheets, with stock weights up to 130 lb. cover. Some options offer Air Assist or Vacuum Feed technology for error-free handling of a wide range of stocks, such as pressure seal paper.

Complex documents, protected stock

Build complex documents with different media types using up to eight pick points, and protect valuable check stock with lockable media trays.

Finishing and mail preparation

Choose a Finisher with multi-position stapling for EOBs. Automate mail preparation with in-line folding for payroll checks. Neatly stack up to 5,000 pages in a High Capacity Stacker, and add a second Stacker for over 10,000 sheets of stacking capacity.

Non-stop productivity

On-the-fly toner replacement and active paper reloading keep these media and finishing capacities moving. Image quality is near offset: up to 1200 x 4800 dpi with Ricoh's Vertical Cavity Surface Emitting Laser (VCSEL) and oil-free belt fusing technology.

Uptime in your hands

Keep your data center or commercial print production shop running at peak efficiency with minimal running costs. Trained Customer Replaceable Units (TCRUs) let in-house operators inventory and replace critical parts quickly, so you are not waiting for a service technician.

Standards and support

As a standing member of the ASC X9B Committee, we continually work on MICR toner formulation and MICR font characteristics to guarantee adherence to national and international standards. We back that up with 7x24 MICR telephone support, a global service network with response times as fast as one hour, and the Rosetta Technologies MICR Quality Guarantee.



CONFIGURATION

Build the system around your workflow



Configuration shown, left to right: Finisher (H), two High Capacity Stackers (G), Buffer Pass Unit (F), main unit (A) with Smart Operation Panel (B), Vacuum Feed Large Capacity Tray (C), Bridge Unit (D) and second Vacuum Feed LCT (E).

Module	What it does
A Pro 8310M / Pro 8320M Main Unit	Print at speeds up to 111/136-ppm. Standard paper capacity is 3,300 sheets from a 1,100-sheet x 2 Tandem Paper Tray (Letter/A4) and two user-adjustable 550-sheet Trays for media up to 13" x 18". Install dual 75,000-impression toner bottles for non-stop productivity.
B Articulating 17" full-color Smart Operation Panel with Attention Lamp	The touch screen provides intuitive job programming, animated fault correction screens, thumbnail image viewing, simplified media selection and more. The attention lamp alerts users to changes in system status from anywhere in the room, which is ideal for loud production environments.
C 4,400-sheet Vacuum Feed Large Capacity Tray (optional, two shown)	Supports more types of media with an air-delivery system that offers high-level feeding accuracy for coated papers up to 350 g/m ² .
D, E BU5020 Bridge Unit (optional) and second 4,400-sheet Vacuum Feed LCT	Install the optional BU5020 Bridge Unit (D) to add a second 4,400-sheet Vacuum Feed LCT (E) and increase media capacity to a maximum of 12,600 sheets.
5,000-sheet Letter/A4 LCT or 4,400-sheet DLT/A3 LCT (not shown)	Need more media versatility? Each has three trays. Active tray indicators show which tray is feeding the printer, to prevent opening an active tray and to allow refilling of depleted paper sources for continuous operation.
F Buffer Pass Unit (optional)	Cools printed sheets as they exit the system for improved stacking and/or finishing.
G 5,000-sheet High Capacity Stacker (optional, two shown)	Move large volumes of output for post-production, packing and shipping. One roll away cart is included with each Stacker. Protect valuable MICR documents with built-in door locks. Install two units side-by-side for 10,000 sheets of stacking capacity.
H 4,500-sheet Finisher with Multi-position Stapling (optional)	Staple sets of up to 100 sheets in a choice of four staple patterns for media sizes up to 11" x 17". Or choose the 3,500-sheet Booklet Finisher (not shown) to create saddle-stitched documents up to 120 pages.

Additional units (optional, not shown)

Multi-folding Unit

Perform multiple folding patterns in one space saving option. Quickly ready pages for insertion into mail streams.

Dual Source Cover Interposer

Provides post-fuser insertion of pre-printed cover stocks for checkbooks, etc.

AT A GLANCE

Production-class MICR, in brief

Production-class printing

- Maximum 13" x 19.2" media support
- Up to eight media pick points with a maximum capacity of 12,600 sheets
- Optional Vacuum Feed Large Capacity Stacker
- Optional High Capacity Stackers and Finishers
- Optional advanced post-fusing Dual Source Cover Interposer
- Optional genuine Adobe® PostScript® 3™ and IPDS
- Fiery Compatible

MICR performance

- 111 and 136 pages per minute
- Up to 1 million impressions per month
- ASC X9 and ABA compliant MICR output
- Optimal MICR signal strength and adhesion
- Consistently reliable MICR quality
- Carbonless paper supported
- E13B and CMC-7 Rosetta Technologies' certified MICR fonts
- Rosetta Technologies' MICR Performance Guarantee



SPECIFICATIONS

General specifications

	Pro 8310M	Pro 8320M
Output speed	Up to 111-ppm	Up to 136-ppm
Max. power consumption	Less than 2,820 W	Less than 3,070 W
Monthly duty cycle	3,300,000 impressions	4,000,000 impressions
Print technology	Single drum dry electrostatic transfer with indirect image transfer system	
Fusing method	Oil-less belt fusing	
Warm-up time	Less than 300 seconds	
Control panel	Full-color 17" Smart Operation Touch Panel	
Media weight range	From 11 lb. Bond to 130 lb. Cover (40 to 350 g/m ²) depending upon input source	
Supported media types	Check stock, pressure seal, IRD paper, carbonless paper, bond, card stock, coated, colored, envelope, glossy, label, letterhead, matte, plain, pre-printed, pre-punched, recycled, tab, transparency depending upon input source	
Output capacity	Maximum 15,000 sheets: 4,500-sheet Finisher plus 5,000-sheet stacker with 250-sheet Proof Tray (add 1 or 2 stacker units)	
Power requirements	208-240V/20A/60Hz (dedicated)	
Dimensions (W x D x H)	45" x 35.4" x 68.3" (main unit only, incl. Attention Lamp)	
Weight	911 lbs. (main unit only)	
Standard media capacity	3,300 sheets	
Tray 1	2,200 sheets (1,100 x 2) (8.5" x 11")	
Tray 2	550 sheets (5.5" x 8.5" to 13" x 18")	
Tray 3	550 sheets (5.5" x 8.5" to 13" x 18")	
Optional media capacity	Maximum 12,600 sheets	
A4/LT LCT (Trays 4 to 6)	5,000 sheets (5.5" x 8.5" to 8.5" x 11")	
A3/DLT LCT (Trays 4 to 6)	4,400 sheets (3.94" x 5.5" to 13" x 19.2")	
Vacuum-Feed LCT Tray	4,400 sheets (2,200 x 2) (3.94" x 5.5" to 13" x 19.2"). Add 1 or 2 units. Second LCT requires Bridge Unit.	
Multi Bypass Tray	500 sheets (3.94" x 5.5" to 13" x 19.2")	

Additional accessories

2-Tray Cover Interposer	400 sheets (200 x 2) (5.5" x 8.5" to 13" x 19.2")
A3/DLT Tray Kit	Converts Tray 1 to 11" x 17" media size
Multi-folding Unit	Supports multiple Gate, Half, and Z-fold patterns
Finisher SR5110	4,500-sheet Finisher + 100-sheet stapling
Finisher SR5120	3,500-sheet Booklet Finisher + 100-sheet stapling
Decurl Unit	3-step pressure adjustment for flat sheets

3rd party finishing options available for booklet making and trimming, ring binding, perfect binding, stacking, punching and wire binding.

Controller specifications

CPU	Intel® Atom Processor Bay Trail-1 @ 1.91 GHz
Memory	2 GB RAM Standard/Maximum
Hard disk drive	640 GB standard
Max print resolution	1200 x 4800 dpi via VCSEL technology
Standard interfaces	Ethernet (1000/100/10Base-TX), USB 2.0 Type A x 6, USB 2.0 Type B x 1, SD card slot
Optional interfaces	Wireless LAN (IEEE 802.11 a/b/g/n), Bluetooth™
Network protocols	TCP/IP (IPv4, IPv6)
Network operating systems	Windows 7, 8.1, 10, Server 2008/R2, Server 2012/R2, Server 2016/R2, Server 2019; Macintosh OS X 10.11+, NetWare 6.5, IBM AIX, SAP, Various UNIX/Linux systems
Print drivers/PDLs	Standard: PCL5e, PCL6, PDF Direct Print Optional: Adobe PostScript, IPDS
Fonts	MICR: E-13B, CMC-7 PCL: 45 scalable + 13 international fonts PostScript: 136 Roman fonts (optional) IPDS: 108 fonts including MICR (optional)
EFI controller option	Fiery EB-35 Controller

Supply yields and volumes

ProMark MICR toner yield	350,000 impressions per kit @ 4% image coverage (Kit contains 4 toner bottles yielding 87,500 pages each)
Maximum print volume	Up to 1,000,000 impressions per month
Monthly duty cycle	Pro 8310M: 3,300,000 impressions Pro 8320M: 4,000,000 impressions

Security features

DataOverwriteSecurity System (DOSS), Data Encryption (Address Book, Authentication Password, SSL Communication, S/MIME, IPsec Communication, HDD), User Authentication (Windows, LDAP, Basic, User Code, 802.1.x Wired), Network Protocol On/Off, IP Filtering, Unauthorized Print Control, SMTP over SSL, Mandatory Security Information Print (Compulsory Security Stamp).

KNOWLEDGE TRANSLATED

Run longer, stop less

111 or 136 pages per minute, up to 1,000,000 impressions per month, and MICR quality we guarantee. Tell us about your check volumes and workflows and we will configure the system around them.

Rosetta Technologies MICR Quality Guarantee

Guaranteed ANSI, ABA and Canadian Payments Association acceptance standards if you use Rosetta Technologies' approved check stock, supplies, MICR fonts and authorized service.

Support

7x24 MICR phone support, operator training and MICR certification, on site service, multiple options available.

Service network

A global service network with response times as fast as one hour, plus TCRUs your own operators can replace.

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