

# RICOH®

# EMP 156

Enhanced Monochrome Publisher

- High Speed
- High Volume
- High Flexibility



## Enhanced monochrome printer for vigorous production printing and flexibility needs

### High Volume, High Quality, High Reliability

The new EMP 156 from Ricoh Printing Systems America (RPSA) is a robust monochrome printer with a compact footprint, designed to meet the most rigorous production printing requirements. It has the same high level of quality workmanship and reliability as the DDP product line and extends the printing technology to meet high-volume production, around-the-clock printing. The EMP 156 is a revolutionary cut-sheet engine design that incorporates advanced paper handling technology derived from Ricoh's industry recognized high-end continuous forms printing systems. The ease of maintenance at the operator level with RPSA's responsive service programs ensures that performance is optimal in the data center, central reproduction department, or service bureau.

### Optimum Flexibility, Cost Effective

The extremely high duty cycle of the EMP 156 ensures that production environments can achieve the maximum throughput required to meet their printing demands. The EMP 156 has also been designed for optimum flexibility in adapting to near-line or off-line finishing options. Through vacuum-fed input trays the EMP 156 supports a wide variety of media up to 14" x 18" paper that can be combined with near-line finishing capabilities such as booklet making, folding, trimming, and hole punching to produce professional, cost-effective, quality documents. The EMP 156 is a highly reliable printer with quality output and performance, production-ready up time, and rugged hardware durability.



### Product Highlights

Create perfect documents with EMP 156 advanced features.

- High speed printing up to 156 ppm at 600 dpi
- A 14" wide paper path accommodates printing on Letter/Legal/B5/A4 size paper (LEF) at full engine speed
- Edge to edge printing
- Duty cycle up to 4,500,000 images per month
- A total input capacity of 15,500 sheets with up to six input bins
- A total output capacity of 8,100 sheets including job offset, with up to four output bins and one sample tray
- Print on heavy, glossy and coated stock - enabled with vacuum feeding that optimizes picking from each hopper
- Wide range of paper support from 16 lb bond to 53 lb bond (110 lb Index)
- Universal paper feeder that accommodates paper sizes from 8" x 7.9" to 14" x 18" (W x L)
- Excellent job offset stacking accuracy within  $\pm 3$  mm
- Easy to replace consumables
- PCL5e/XL and Adobe® PostScript® 3™
- MOP (Multiple Original Printing) function provides multiple sets printing at engine-speed
- Direct PDF and TIFF printing
- Duplex and Simplex printing
- Advanced error recovery including support for ordered sets
- Network printing - TCP/IP and Internet Printing Protocol
- Virtual Printer Technology® (VPT)

### Maximum Input & Output\*

Order the EMP 156 engine with any combination of High Capacity Feeders and Container Stackers to optimize the printing system for your needs. The EMP 156 printer includes two input bins, which hold up to 3,500 sheets in total. You can expand the input volume up to 15,500 sheets by adding two more High Capacity Feeders, which hold 6,000 sheets each. For output, the EMP 156 comes with 1 standard Sample Tray, which stacks 100 sheets and one Container Stacker, which stacks 4,000 sheets with Job Offset. For higher production needs, you can add one more Container Stacker for another 4,000 sheets and expand the output volume up to 8,100 sheets in total.

\*Paper capacity is defined with 20 lb paper.



## Specifications

### PRINTING SPEED

Paper Size and Feed Orientation	Speed
Letter/LEF	156 ppm
Legal/LEF	156 ppm
Ledger/SEF	78 ppm
B5/LEF	156 ppm
A4/LEF	156 ppm
B4/SEF	78 ppm
A3/SEF	78 ppm

### PAPER HANDLING

Minimum Configuration (Print Engine with Container Stacker 1)	
Input	Input Bins: 2,500 sheets and 1,000 sheets
Output	Sample Tray: 100 sheets Container Stacker 1: 4,000 sheets with Job Offset

Maximum Configuration	
Input	Print Engine: 3,500 sheets High Capacity Feeder 1: 6,000 sheets High Capacity Feeder 2: 6,000 sheets
Output	Print Engine: 100 sheets (Sample Tray) Container Stacker 1: 4,000 sheets with Job Offset Container Stacker 2: 4,000 sheets with Job Offset

Paper Sizes U.S.	Paper Weights (lb)
Letter/LEF, SEF	16 lb Bond - 110 lb Index
Legal/LEF, SEF	16 lb Bond - 110 lb Index
Ledger/SEF	16 lb Bond - 110 lb Index
Executive/LEF	20 lb Bond - 110 lb Index
Super B/LEF	20 lb Bond - 110 lb Index
Folio/LEF, SEF	20 lb Bond - 110 lb Index

Paper Sizes Metric	Paper Weights (gsm)
B5/LEF	60 gsm - 199 gsm
A4/LEF, SEF	60 gsm - 199 gsm
B4/SEF	60 gsm - 199 gsm
A3/SEF	75 gsm - 199 gsm

Custom Sizes U.S.	Paper Weights (lb)
Minimum 8.0" x 7.9"	20 lb Bond - 110 lb Index
Maximum 14.0" x 18.0"	20 lb Bond - 110 lb Index

Custom Sizes Metric	Paper Weights (gsm)
Minimum 203.2 x 200.7	75 gsm - 199 gsm
Maximum 355.6 x 457.2	75 gsm - 199 gsm

### PRINT CONTROLLER

Processor	PowerPC 750FX (800MHz)
Memory	DDR-SDRAM DIMM (PC2100) 256 MB
Hard Disk Drive	40 GB ATA HDD
Direct Printing	PDF, TIFF, ASCII
Page Description Languages	Adobe® PostScript® 3™, PCL5e/XL
Fonts	PCL5e/XL: 80 Fonts PostScript 3: 136 Fonts
Resolution	600 x 600 dpi
MOP (Multiple Original Printing)	Standard
Duplex, Simplex	Standard
Error Recovery	Ordered Sets (Tab Stock, NCR)

### NETWORK CONNECTIVITY

Standard Interface	Ethernet 10/100/1000Base-T with automatic switching
Optional Interface (Card)	Multi-protocol Ethernet 10/100Base-TX with automatic switching

### PROTOCOLS

	TCP/IP (Raw TCP, LPR) and Internet Printing Protocol (IPP)
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### DRIVERS

	Custom bi-directional drivers for Windows® XP, Windows 2000 for Apple Macintosh OS 8.x/9.x/10.x
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### THIRD PARTY OPTIONS

Data Stream Conversion	AFP/IPDS, SCS, LCDS/DJDE Metacode to Adobe PostScript or PCL
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### CONSUMABLES

Toner (6 bottles per package)	Average Yield: 324,000 images @ 5% coverage (per package)
Developer (2 bottles per package)	Average Yield: 1,280,000 images @ 80% utilization
PM Cycles	Engine (First PM): 1,600,000 (images) Container Stackers: 9,600,000 (images) High Capacity Feeders: 9,600,000 (images)

### PHYSICAL

Power	220V - 25Amp/3Ø/Nema L15-30P (US)
Weight	Printer Engine: 1,323 lbs (600 kg) Engine Floor Loading: 660 lbs per square inch (47 kg per square centimeter) Container Stacker 1: 574 lbs (260 kg) Container Stacker 2: 574 lbs (260 kg) HCF 1: 699 lbs (317 kg) HCF 2: 697 lbs (275 kg) Base: 1,897 lbs (860 kg)
Dimensions (H X W X D)	Printer Engine: 50" x 54" x 44" (1,264 x 1,350 x 1,105 mm) Container Stacker 1: 36" x 54" x 30" (905 x 1,350 x 746 mm) Container Stacker 2: 36" x 54" x 30" (905 x 1,350 x 746 mm) HCF 1: 52" x 50" x 31" (1,318 x 1,270 x 772 mm) HCF 2: 50" x 50" x 31" (968 x 1,270 x 772 mm) Base: 50" x 108" x 44" (1,264 x 2,743 x 1,105mm)

Duty Cycle	Average Monthly Print Volume: 1,200,000 - 1,500,000 images (A4/Letter) Maximum Monthly Print Volume: 4,500,000 images (A4/Letter)
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Expected Service Call Rate	600,000 images
Required Maintenance Area (W X D)	156" x 122" (4,000 x 3,100 mm)

Printer Engine Life	Five years or 90,000,000 images (A4/Letter) - whichever comes first.
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Other Equipment	Attention Lamp with Green, Yellow and Red
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