

# RICOH

# EMP 156

Enhanced Monochrome Publisher

- Reliability
- Connectivity
- Productivity



## Enhanced monochrome publisher for production printing and flexibility needs

### High Volume, High Quality, High Reliability

The new EMP 156 from Ricoh Printing Systems America (Rico) 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 14.2" 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 14.2" 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 14.2" 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	Simplex / Duplex
Letter / LEF	156 ppm / 78 ppm
Letter / SEF	78 ppm / 39 ppm
Legal / LEF	156 ppm / 78 ppm
Legal / SEF	78 ppm / 39 ppm
Ledger / SEF	78 ppm / 39 ppm
B5 / LEF	156 ppm / 78 ppm
A4 / LEF	156 ppm / 78 ppm
B4 / SEF	78 ppm / 39 ppm
A3 / SEF	78 ppm / 39 ppm

### PAPER HANDLING

Standard Input	3,500 sheets total
Input Bins	2,500 sheets and 1,000 sheets
Maximum Input	15,500 sheets total
Printer Engine	3,500 sheets
High Capacity Feeder 1	6,000 sheets
High Capacity Feeder 2	6,000 sheets
Standard Output	4,100 sheets total
Sample Tray	100 sheets
Container Stacker 1	4,000 sheets with Job Offset
Maximum Output	8,100 sheets total
Printer 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 AND WEIGHTS

Paper Sizes U.S.		Paper Weights (lb)
Letter / LEF, SEF	8½" x 11"	16 lb Bond - 110 lb Index
Legal / LEF, SEF	8½" x 14"	16 lb Bond - 110 lb Index
Ledger / SEF	11" x 17"	16 lb Bond - 110 lb Index
Executive / LEF	7½" x 10½"	20 lb Bond - 110 lb Index
Folio / LEF, SEF	8½" x 13"	20 lb Bond - 110 lb Index

Paper Sizes Metric		Paper Weights (gsm)
B5 / LEF	250 x 176mm	60 gsm - 199 gsm
A4 / LEF, SEF	297 x 210mm	60 gsm - 199 gsm
B4 / SEF	353 x 250mm	60 gsm - 199 gsm
A3 / SEF	420 x 297mm	75 gsm - 199 gsm

Custom Sizes U.S.		Paper Weights (lb)
Minimum	8" x 7.9"	20 lb Bond - 110 lb Index
Maximum	14.2" x 18"	20 lb Bond - 110 lb Index

Custom Sizes Metric		Paper Weights (gsm)
Minimum	203.2 x 200.7mm	75 gsm - 199 gsm
Maximum	360.6 x 457.2mm	75 gsm - 199 gsm

### PRINT CONTROLLER

Processor	PowerPC 750FX (800 MHz)
Memory	DDR-SDRAM DIMM (PC2100) 256 MB
Hard Disk Drive	40 GB ATA HDD
Printer Ready	PDF, TIFF, ASCII
Page Description	
Languages	PCL5e/XL, Adobe® PostScript® 3™
Fonts	PCL5e/XL: 80 Fonts PostScript 3: 136 Fonts
Resolution	600 x 600 dpi
MOP (Multiple Original Printing)	Standard
Duplex, Simplex	Standard
Error Recovery	Paper Jams
Embedded Web Server	Real-time device monitoring and configuration

### NETWORK CONNECTIVITY

Standard Interface	Ethernet 10/100/1000Base-T (autosensing)
Optional Interface (Card)	Multi-protocol Ethernet 10/100Base-TX with automatic switching
Protocols	TCP/IP (Raw TCP, LPR) and Internet Printing Protocol (IPP)

### DRIVERS

Custom bi-directional drivers for Windows® 98 / 95 / 2000 / NT 4.0 / XP; PPD for Apple Macintosh OS X, UNIX, AS/400

### VIRTUAL PRINTER TECHNOLOGY (VPT®)

Enables a single printer to support up to 64 print services or "virtual printers"

### 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 (per package)
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 - 240V, 30A/3Ø/Nema L15-30P (US)
Weight	Minimum: 1,897 lbs (860 kg) Maximum: 3,867 lbs (1,754 kg) Engine Floor Loading: 660 lbs per square inch (47 kg per square centimeter)
Dimensions (H X W X D)	Minimum: 66" x 104" x 64" (1,676 x 2,641 x 1,256 mm) Minimum: 66" x 226" x 64" (1,676 x 5,740 x 1,256 mm)
Duty Cycle	Average: 200,000 - 1,500,000 images/month (A4 / Letter) Maximum: 4,500,000 images/month (A4 / Letter)

### Required Maintenance

Area (W X D)	156" x 122" (4,000 x 3,100 mm)
Other Equipment	Attention Lamp with Green, Yellow and Red

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