

Next-generation digital publishing and statement printing sets a new benchmark in print quality, performance and productivity



IBM Infoprint 4100 Advanced Function Printing System



Highlights

- **Industry-leading 600-dpi image quality**
- **High speed at up to 280 linear feet per minute (1,220 2-up duplex letter impressions or 1,148 2-up A4 duplex impressions)**
- **Extra-wide format (19.5" paper width; up to 19" print width) for true 3-up pages**
- **All models support a wide range of media**

The IBM Infoprint® 4100 Advanced Function Printing System is a next-generation digital publishing and production output solution. This continuous forms printer can produce the high image and text quality traditionally available only from cutsheet solutions, and prints on a wide range of paper. In addition, the Infoprint 4100 provides the highest speed for electrophotographic printers and allows users to produce more output with fewer devices and less operator time.

Commercial printers can use the Infoprint 4100 to help reduce the costs of printing books or technical manuals. Direct mailers and service bureaus can lower costs by running a broad range of paper weights at higher speeds. And enterprise production centers printing statements or publications can reduce operation costs with the new high speed and the flexibility of integrated pinned or pinless printing—all while providing a new level of print quality for text, graphics and images for a competitive advantage.

Uncompromising print quality

Providing the highest image and text quality available at this speed in continuous forms printing today, the Infoprint 4100's hardware enhancements include technological advancements in printhead, developer and fusing mechanisms, plus an integrated optical density feedback system for sharp, clear images and text, job after job. Software enhancements include customized, selectable halftones with four screen frequencies and an innovative 256-level grayscale simulation of color objects using IBM patented technologies.

The IBM Infoprint 4100 offers Premium Quality and High Quality models in both simplex and duplex. The Premium Quality models (PS1, PD1/PD2) produce output that can exceed the print quality of most cutsheet solutions and are designed to print superior halftone images, text and graphics for catalogs, brochures, books with photos, and high-value statements with halftone images. High Quality models (HS1, HD1/HD2, HS2 and HD3/HD4) offer excellent quality in text, image and line graphics

for applications such as newspapers, books and statements, with the slower-speed models offering the broadest range of media support. For higher-speed printing, the HS2 and HD3/HD4 models increase the speed up to an efficient 1,220 letter-sized impressions per minute (ipm). And a state-of-the-art blue semiconductor laser printhead combines with the unique digital Print Quality Enhancement (PQE) to dramatically improve print quality at high speeds.

Time- and money-saving features:

- Operators can switch between pin-fed and pinless¹ printing for the greatest print job flexibility and full printer utilization. Autoload and auto-align functions provide fast, easy paper threading for both pinned and pinless operations.
- The graphical, easy-to-use Enhanced Operator Console can do double-duty as an Infoprint Manager workstation, so operations managers can log on and manage print jobs and



Economy and performance—true 3-up printing with buffer to trim

- Extra-wide print web—19" print width accommodates 3-up 6"x9" or A5 with plenty of trim buffer for books, manuals, and loose-leaf documents.
- High productivity—up to a phenomenal 2,238 ipm throughput in 3-up, 6" by 9" printing mode and 2,436 ipm 3-up A5, all with superior print quality.
- Reduced cost of printing—up to a 33 percent reduction in usage charge per impression in 3-up printing compared with the same size 2-up printing.

queues from the print room.

Authorized operators can preview job queues from the printer console and prepare for upcoming form changes.

- Supports a broad range of paper weights from 12# to 42# depending on the model. A switch enables the Infoprint 4100 Model HD3/HD4 to lower its speed for challenging media or MICR printing¹.
- Industry standard Universal Printer Pre- and Post-Processing Interface (UP3i)¹ can enhance finishing capabilities, automate

configuration settings and extend sheet-level error recovery to the UP3i-attached pre- and post-processing and finishing devices.

- Standard Enhanced Fusing toner offers superior fuse grade, uniform solid area fill, and near-perfect barcode read rate.
- The latest Advanced Function Common Control Unit™ (AFCCU™) technology incorporates superb functionality and performance, featuring object caching and parallel multi-RIP processing.

• Customer Changeable Developer allows the operator to efficiently change the developer, helping to increase system availability for MICR or highlight color printing.²

- Multiple high-speed attachments, such as IBM FICON™ (Fiber Connectivity) and Gigabit Ethernet, offer greater distance flexibility and support of complex applications at rated speed.
- Forms Identification can help minimize reprint costs by verifying that the correct form is loaded.

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For expanded specifications, visit ibm.com/printers/4100

Print Speed (up to)	HS1, PS1	PD1/PD2, HD1/HD2	HS2	HD3/HD4
Linear feet/meters	175/53.34	175/53.34	280/85.34	280/85.34
1-up 8.5" x 11"	247 ipm	494 ipm	395 ipm	790 ipm
2-up 8.5" x 11"	381 ipm	762 ipm	610 ipm	1,220 ipm
3-up 6" x 9"	700 ipm	1,400 ipm	1,119 ipm	2,238 ipm
Usage (max. impressions/mo.) ³	HS1, PS1	PD1/PD2, HD1/HD2	HS2	HD3/HD4
1-up 8.5" x 11"	6 M	12.1 M	9.9 M	19.8 M
2-up 8.5" x 11"	9.4 M	18.8 M	15 M	30.1 M
3-up 6" x 9"	17.2 M	34.4 M	27.5 M	55 M

Paper Capacities

Input: Up to 16" (408 mm) stack of boxed paper

Output: Up to 14" (356 mm) stack of paper; or up to 6" stack height with 14" long form.

Pre- and Post-processing Interfaces allow additional capabilities and are required for pinless printing.

Internal stacker support is available for pin-fed paper.

Media

Paper width	Pin-fed: 8.3" to 19.5" (210 mm to 495 mm)	Pinless ¹ : 8" to 19.5" (203 mm to 495 mm)
Print width	Pin-fed: 18.5" (469 mm)	Pinless ¹ : 19" (482 mm)
Paper length	Internal stacker: 7" to 14" (178 mm to 356 mm)	
Paper weight	Signature Page Support: 3" to 54" (76.2 mm to 1371 mm) for pin-fed and pinless	
	HS1, HD1/HD2: 12–42 lbs (45–160 gsm)	
	PS1, PD1/PD2: 12–28 lbs (45–105 gsm)	
	HS2, HD3/HD4: 16–28 lbs (60–105 gsm) at regular speed	
	HS2, HD3/HD4: 16–42 lbs (60–160 gsm) at slower speed (230 linear feet or 70.1 meters per minute) ¹	
	See Reference Forms Design Guide for detailed specifications.	
Paper type	Pin-fed and pinless: preprinted, plain, boxed fanfold forms and roll-fed paper	

System Attachments	S/370™ Parallel, S/390® ESCON®, FICON Channel; Token-Ring; 10/100 BaseT, Gigabit Ethernet			
AFP Software Support	Print Services Facility™ (PSF™) for OS/400®, PSF for z/OS and OS/390, Infoprint Manager for AIX®, Infoprint Manager for Windows®			
Standard Features	Enhanced Operator Console, operator-switchable resolution (480 or 600 dpi) and paper path (pin-fed and pinless ¹), imposition support, 256-level grayscale simulation of AFP color objects, SNMP support, Pre-/Post-processing Interfaces, flat-panel touch-screen GUI, keyboard and mouse, one system attachment			
Options	Operator switchable speed, Forms Identification, Signature Page, additional or advanced Pre-/Post-processing Interfaces, UP3i interfaces, second attachment, performance upgrade, additional Customer Changeable Developer, dynamic two-channel switching, internal stacker			
Physical Characteristics (per engine)	Length: 92" to 94" (2,336 mm to 2,387 mm); Depth: 40" (1,016 mm); Height: 61" (1,550 mm); Weight: HD1, PD1, HD3 — 2,620 lb. (1,191 kg); HS1, HS2, PS1, HD2, PD2, HD4 — 2750 lb. (1,250 kg)			
Power Requirements	208/220/230/240 VAC/60 Hz, 3-phase, 4-wire; 380/400/415 VAC/50 Hz, 3-phase, 5-wire, 200/220 VAC/50 Hz or 60 Hz, 3-phase, 4-wire. Voltage determined by country standards. Models HS2 and HD3/HD4 also require a 250 volt/10 amp power supply.			
Power Consumption (estimated)	60 Hz/50 Hz	Sleep mode	Ready mode	Printing with 20 lb. paper
HS1, PS1, HD1/HD2, PD1/PD2		1.8kVA	3.6 kVA	9.6 kVA
HS2, HD3/HD4		1.4kVA	3.4 kVA	12.9 kVA
Environmental Conditions	Permitted ranges Temperature: 60.8° to 84.2°F (16° to 29°C); Relative Humidity: 20% to 80%			
	Optimal ranges Temperature: 65° to 75°F (18° to 24°C); Relative Humidity: 40% to 60%			
	Acoustics 50/60 Hz—8.8 bels (operating) or 7.8 bels (idle)			

¹ Not available on HS2 or HD3/HD4 initially; IBM intends to deliver this capability at a later date. Please contact your IBM sales representative for availability status.

² Not available on HS2 or HD3/HD4.

³ IBM does not recommend reaching this monthly maximum on a consistent basis.



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