



DATASHEET

Book iX

A Book Smart Suite Solution Simplifying Short-Run Book Production

For book manufacturers who want to better manage inventories, reduce production costs, and react to market demand for improved profitability, Canon Solutions America's high-speed digital print solutions supply tremendous speed and efficient supply chain management — without sacrificing quality.

Now, Canon Solutions America is offering an easy-to-implement, highly efficient, end-to-end solution that takes the guesswork out of the transition to an automated book solution and helps ensure a favorable economy of scale for short-run production. Known as the Book iX, this smart book offering helps simplify and streamline the book manufacturing process.

As part of the Book Smart Suite solution set, the Book iX helps book manufacturers to capitalize on profitable new opportunities presented by dynamic and on-demand book production—from short runs and one-offs to backlists, out-of-print titles, reprints, and more. Book iX couples Canon's varioPRINT iX-series with the C.P. Bourg Preparation Module, Perfect Binder, and Challenge Three-Knife Trimmer to help streamline the manufacturing of books while realizing the economies of short-run printing through the comprehensive and intuitive Conveyance workflow software from Canon.

Conveyance – Automating Book Production for Profitability

As a part of our automated workflow software portfolio, Conveyance enables file transfer and job information exchange from print requester or publisher to book manufacturer via a standardized and comprehensive XML-based file format. Book iX combines Conveyance’s intuitive business-rules, enables the batching of incoming work orders by similar job groupings, applies dynamic impositions, creates barcodes for cover and text block authentication, routes and tracks order items to appropriate devices, and helps maintain the integrity and order status communication via JDF/JMF protocol. Conveyance is specifically designed to help achieve end-to-end job production automation and accuracy while reducing the manual touchpoints, waste, and inventory costs.

CONVEYANCE TECHNICAL SPECIFICATIONS	
RECOMMENDED SERVER 2019 SPECIFICATION	
HP ML110 G10 XEON 4210 (10-core) 16 GB RAM, P408i Controller, 800 W P/S, 1 Proc max, Tower, 1 YR Warranty	
HP 16 GB RAM upgrade (brings server to 64 GB)	
HP 1.2 TB 12G 10K SAS SFF Enterprise Drive, 3 YR Warranty	
HP ML110 G10 800 W additional p/supply	
HP DVD-Reader DVD-ROM	

Microsoft Win Server Std 2019 64 Bit License
Cable, RJ45 FastCAT 5e Patch cable 10'
1.83M C13-UL power cord
(Optional) HP ML110 Redundant Fan kit with 4 fans
(Optional) HP 3 YR Foundation Care 24 x 7 NBD
HP P24h 23.8" Full HD LCD Monitor

Conveyance is a Windows 10 Pro-based software application that resides on a customer-supplied PC or Server 2019.

varioPRINT iX-series sheetfed inkjet press

The varioPRINT iX-series combines the productivity, excellent 1200 dpi quality, and media versatility to help provide customers with a cost-efficient solution to produce a wide range of monochrome and full color short or long-run books. The Book iX solution supports unprecedented productivity for book manufacturers that have the desire to have an end-to-end solution with automation while driving labor cost down and productivity up. The ability to produce one or more books with confidence and consistency is the power of iX-series. Experience the new wave of book printing in the Book iX solution to help open up more opportunities for profit and business.

VARIOPRINT iX-SERIES SHEETFED INKJET PRESS SPECIFICATIONS	
TECHNOLOGY	
Print technology	Inkjet, Drop-on-demand, piezoelectric
Ink	Proprietary polymer pigment water-based iX inks
Drop size	Variable, Multilevel
Print speed	varioPRINT iX3200: 312 letter duplex images per minute 4740 11 x 17 sheets 4/4 per hour 4500 12 x 18 sheets 4/4 per hour
	varioPRINT iX2100: 205 letter duplex images per minute
Duty cycle	varioPRINT iX3200: 1,000,000 – 10,000,000 letter impressions/month varioPRINT iX2100: 1,000,000 – 7,000,000 letter impressions/month
Print resolution	1200 x 1200 dpi
PAPER	
Paper weight	Uncoated: 60 - 350 gsm Coated: 90 - 350 gsm
Substrates	Commodity coated and uncoated papers including specialties
Standard configuration	2 Paper Input Module (PIM Flex XL) 1 High Capacity Stacker
Paper sizes	PIM Flex XL: All sizes between 8" x 8" and 13.78 x 20" supported
Maximum printable area	13.3 x 19.8
Paper capacity	3 PIMS x 4,600 sheets per PIM (13,800) 20 lb. bond

PAPER INPUT MODULE FLEX XL	
Paper trays	2 x 600 sheets, 2 x 1,650 sheets (80 gsm)
Standard paper capacity	4,500 sheets
Paper size	Paper trays 1 and 2: 600 sheets 20 lb. bond 8 x 8 to 13.78 x 20 Paper trays 3 and 4: 1,700 sheets 20 lb. bond 8 x 8 to 13.78 x 20
Dimensions (WxDxH)	37.2 x 34.8 x 44.4
Weight	441 lbs
HIGH CAPACITY STACKER	
Stacks	2 x 3,000 sheets (80 gsm) per stacker
Dimensions (WxDxH)	36 x 30 x 43.2
Weight	353 lbs
INTEGRATED CAMERA MOUNTING UNIT (OPTIONAL)	
	Inline camera inspection
Dimensions (WxDxH)	3.2 x 1.2 x 4.6
Weight	448 lbs
PRISMASYNC CONTROLLER	
Network connectivity	Internal: 1 x 10 Gbit Ethernet; External: 2 x 1 Gbit (10/100/1000 Base-T), TCP/IP (LPR/LPD, 9100 Socket), Static IP / Auto-IP (DHCP), IPv4, IPv6 (only in Document printing mode)
Page Description Languages	PDF 1.7 (Extension Level 3), APPE DP mode is 5.4, APPE for TP mode is 4.9, PDF/VT (Level 1), Postscript, PPML 2.2, IPDS IS/3, SRA PCL6

Job submission	lpr, Hotfolders via WebDAV, Socket (streaming), JDF/JMF, IPP 2.0, Remote PDF Driver
Protocols	SNMP v1, SNMP v3, Host Resources MIB, MIB II, Printer MIB, Job Monitoring MIB, Job Management MIB (partially), IEEE 802.1x
Spot Color Libraries	PANTONE+ Solid (Coated & Uncoated), PANTONE GOE (Coated & Uncoated), HKS (K,N), HKS (K,N) 3000+ PANTONE+ Solid 336 New (Coated & Uncoated)
CONNECTION REQUIREMENTS	
Connection fuse	230/400 VAC, 100 A; 100-240 VAC, 13-20 A; 100-240 VAC, 13-20 A; 200-240 VAC, 13-20 A; 100-240 VAC, 13-20 A
Power consumption printing	14.9 kW
Power consumption idle	7.1 kW
Power consumption sleep	0.9 kW
Compressed air	5-12 bar, dry and oil free
Water	Reverse osmosis water system

ENVIRONMENTAL	
Temperature	Optimal range 20-26 °C
Humidity	Optimal range 30-50%
Operating noise	Printing 72 dB, Standby 61 dB
PHYSICAL DATA ⁽¹⁾	
Length × Width × Height	33 x 9.2 x 7.3
Weight	Approximately 15,900 lbs. (main engine, 2 PIMs, 1 HCS)
OPTIONS	
Paper trays	Duo Paper Trays
High Capacity Stacker	Second High Capacity Stacker
Integrated camera mounting unit	
Inline finishing	DFD interface SFD interface
Canon PRISMAsync	DPLink DocBox* PRISMAlytics Dashboard* PRISMAsync Simulator PRISMAprofiler

* Included in Base Configuration

C.P. Bourg

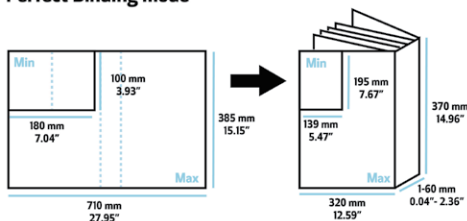
The Book iX solution utilizes C.P. Bourg products to create a dynamic automated solution for book production inline with the iX-series presses. This finishing line begins with the Bourg WalkOver, which helps to create an easy path for the operator to access both sides of the production line. Either a single or dual Bourg Preparation Module follows the WalkOver. Depending on the configuration, these modules cut, fold, rotate, crease, and trim the media down to the appropriate sheet size. The sheets are then fed into the Bourg Book Compiler, which stacks the sheets into a book block and sends it into the CPB 3002 Perfect Binder for binding. Finally, the Challenge CMT 330TC trims the book down to its final size. The C.P. Bourg products all feature JDF connectivity, which allows Conveyance to control the equipment without operator intervention and takes into account book size changes and page counts automatically from book to book, making this an ideal solution short runs and reprints to long run production needs.. All of this happens on-demand, helping book manufacturers meet their current needs quickly, while providing them with the opportunity to grow their business in the future.

C.P. BOURG SPECIFICATIONS

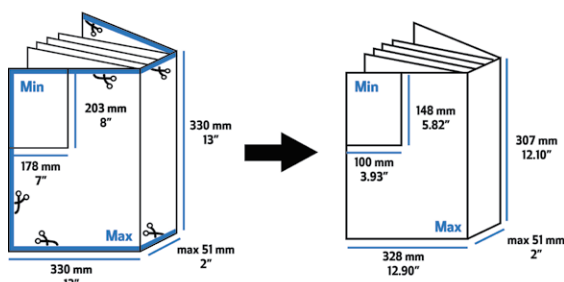
BOOK SIZE CAPABILITIES

Book Binding Specifications

In-Line mode
Perfect Binding mode



Book Trimming Specifications



SPEED

Maximum Binding Speed (EVA)	650 cycles/hour, 350 books/hour
Maximum Binding Speed (PUR)	650 cycles/hour, 285 books/hour
Maximum Trimming Speed	Single Book Mode: 400 books/hour Multiple Booke Mode: 750 books/hour

MEDIA

Minimum Cover Size	100 x 180 mm (3.93 x 7.08 in)
Maximum Cover Size	385 x 750 mm (15.15 x 29.52 in)
Cover Weight	80 to 300 gsm
Minimum Content Size	100 x 90 mm (3.93 x 3.54 in)
Maximum Content Size	385 x 320 mm (15.15 x 12.59 in)
Content Weight	60 to 200 gsm
Milling Depth	0 to 3 mm (0 to 0.11 in)
Book Thickness	2.5 to 51 mm (0.10 to 2 in)

SHEET PREPARATION ACCURACY

BPM Module Tolerance	Top and Bottom Trim: 0,4 mm (0.01 in) Cut: 0,4 mm (0.01 in) Crease: 0,4 mm (0.01 in)
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PHYSICAL SPECIFICATIONS

Dimensions of 3002 Perfect Binder	79.52 x 53.15 x 59.05 in
Weight of 3002 Perfect Binder	1,430 lbs
Dimensions of BBC	59.05 x 33.46 x 57.08 in
Weight of BBC	661 lbs
Dimensions of BPM	42.51 x 34.64 x 41.14-44.09 in
Weight of BPM	532.41 lbs
BPM Module Weights	Bleed/Trim Unit: 72.75 lbs Cut Unit: 73.85 lbs Crease Unit: 90.38 lbs Fold Unit: 83.77 lbs
Dimensions of BWO	51.37 x 22.36 x 29.60 - 41.81 in
Weight of BWO	291.01 lbs
Dimensions of CMT-330TC Base	90 x 38 x 62 in
Weight of CMT-330TC Base	2,900 lbs
Glue Temperature	256°F to 356°

ELECTRICAL REQUIREMENTS

BWO Power Supply	120 V ±10%, 50/60 Hz, 2 A 230 V ±10%, 50/60 Hz, 1 A
BPM Power Supply	120 V ±10%, 50/60 Hz, 2 A 230 V ±10%, 50/60 Hz, 1 A
BBC Power Supply	120 V ±10%, 60 Hz, 5 A 230 V ±10%, 50 Hz, 2 A
CPB 3002 Power Supply	208/220 V ±10%, 60 Hz, 3 phase delta, 12 A 220/230 V or 240 V ±10%, 50 Hz, 3 phase delta, 12 A 380/400 or 415 V ±10%, 50 Hz, 3 phase star, no neutral needed, 12 A
CMT 330 Power Supply	208/230 V ±10%, 60 Hz, 3 phase, 25 A 380/415 V ±10%, 50 Hz, 3 phase, 16.5 A 202/208 V ±10%, 50 Hz, 3 phase, 25 A

AIR REQUIREMENTS

CPB 3002 Compressed Air	87 to 116 PSI / 6 to 8 BAR
CPB 3002 Air Consumption	50 l/min; the melter needs a flow rate of 30 Std L/min
CMT 330 Compressed Air	Must maintain a minimum 90 PSI, 6 BAR (620 KPA) regulated, dry, non-lubricated compressed air source capable of supplying a minimum of 9 CFM (255 LPM)
CMT 330 Air Consumption	ISO 8573.1 Class 2.4.2 (solids < 1 micron, pressure dew point < 38°F @100psig, and oil content < .08 ppm)



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