# 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.

CANON SEE IMPOSSIBLE

# 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 |

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| Microsoft Win Server Std 2019 64 Bit License |
| Cable, RJ45 FastCAT 5e Patch cable 10' |
| 1.83M C13-UL power cord |
| (Optional) HP ML110 Reduntant 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:<br>312 letter duplex images per minute<br>4740 11 x 17 sheets 4/4 per hour<br>4500 12 x 18 sheets 4/4 per hour<br>varioPRINT iX2100:<br>205 letter duplex images per minute |
| Duty cycle | varioPRINT iX3200: 1,000,000 – 10,000,000 letter impressions/month<br>varioPRINT iX2100: 1,000,000 – 7,000,000 letter impressions/month |
| Print resolution | 1200 x 1200 dpi |
| **PAPER** | |
| Paper weight | Uncoated: 60 - 350 gsm<br>Coated: 90 - 350 gsm |
| Substrates | Commodity coated and uncoated papers including specialties |
| Standard configuration | 2 Paper Input Module (PIM Flex XL)<br>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<br>Paper trays 3 and 4: 1,700 sheets 20 lb. bond 8 x 8 to 13.78 x 20 |
| Dimensions (W×D×H) | 37.2 x 34.8 x 44.4 |
| Weight | 441 lbs |
| **HIGH CAPACITY STACKER** | |
| Stacks | 2 × 3,000 sheets (80 gsm) per stacker |
| Dimensions (W×D×H) | 36 x 30 x 43.2 |
| Weight | 353 lbs |
| **INTEGRATED CAMERA MOUNTING UNIT (OPTIONAL)** | |
| | Inline camera inspection |
| Dimensions (W×D×H) | 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<br>SFD interface |
| Canon PRISMAsync | DPlink<br>DocBox*<br>PRISMAlytics Dashboard*<br>PRISMAsync Simulator<br>PRISMAprofiler |

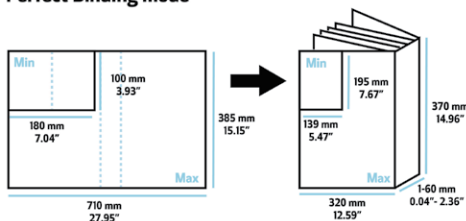*Included in Base Configuration*

# 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.
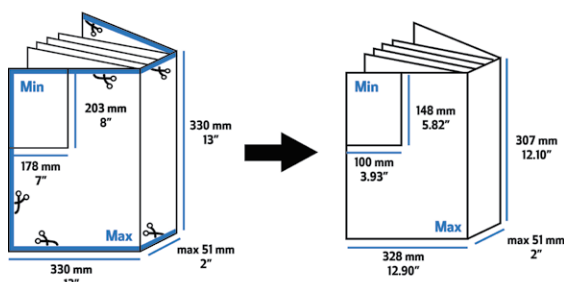
## C.P. BOURG SPECIFICATIONS
### BOOK SIZE CAPABILITIES

**Book Binding Specifications**

In-Line mode
Perfect Binding mode

Min
100 mm 3.93"
180 mm 7.04"
385 mm 15.15"
710 mm 27.95"
Max

Min
195 mm 7.67"
139 mm 5.47"
370 mm 14.96"
320 mm 12.59"
Max
1-60 mm 0.04"- 2.36"

**Book Trimming Specifications**

Min
203 mm 8"
178 mm 7"
330 mm 13"
330 mm 13"
Max
max 51 mm 2"

Min
148 mm 5.82"
100 mm 3.93"
307 mm 12.10"
328 mm 12.90"
Max
max 51 mm 2"

| 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<br>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 Tollerance | Top and Bottom Trim: 0,4 mm (0.01 in)<br>Cut: 0,4 mm (0.01 in)<br>Crease: 0,4 mm (0.01 in) |

## 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<br>Cut Unit: 73.85 lbs<br>Crease Unit: 90.38 lbs<br>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<br>230 V ±10%, 50/60 Hz, 1 A |
| **BPM Power Supply** | 120 V ±10%, 50/60 Hz, 2 A<br>230 V ±10%, 50/60 Hz, 1 A |
| **BBC Power Supply** | 120 V ±10%, 60 Hz, 5 A<br>230 V ±10%, 50 Hz, 2 A |
| **CPB 3002 Power Supply** | 208/220 V ±10%, 60 Hz, 3 phase delta, 12 A<br>220/230 V or 240 V ±10%, 50 Hz, 3 phase delta, 12 A<br>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<br>380/415 V ±10%, 50 Hz, 3 phase, 16.5 A<br>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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