Horizon

pXnet Ready

BQ-270V

Perfect Binder

Book thickness caliper allows true on demand production, where every book can be a different thickness.

Professional quality from a binder that's simple to setup and easy to use.
Automated book thickness caliper comes standard for greater production efficiency.

Features

1. **User-friendly and Highly Accurate Binder** – Horizon's expertise in binding and advanced automation combine to allow even low-skilled operators to produce professional quality books. User-friendly operation and precision automation achieve short set-ups with little or no make-ready.
2. **Quick Setup** – All setups can be done instantly by simply inputting book block and cover information into the 10.4" color touchscreen. A changeover from A4 to A5 size book can be completed in 10 seconds.
3. **High-speed Binding** – Produce books up to 50 mm / 2.0" thick at a maximum speed of 500 cycles*1 per hour.
4. **Accurate Binding** – Strong, rigid nipping and cover scoring stations are comparable to larger industrial book binders, for strong, accurate binding.
5. **Variable Binding Compatibility** – Book thickness caliper is provided as standard equipment. As one book is cycling, a subsequent book of different thickness can be measured, the data will be transferred, and the binder will begin the changeover. This allows true on demand production, where every book can be a different thickness. The BQ-270V provides greater production efficiency for variable binding with 30 % less cycle time*1 than conventional models.
6. **Manage your bindery with pXnet** – The optional pXnet bindery control system makes job scheduling and tracking for the BQ-270V super efficient, or accept JDF setup data from an upstream workflow.

*1 Cycle speed depends on the book block feeding time and the book block thickness.

Easy, intuitive operation requires no special operator skills to achieve superior quality from the first book.

1 Color Touchscreen

The graphical icon-based touchscreen provides for quick and easy set-up. Almost all settings, including fine adjustments, can be set through the touchscreen.

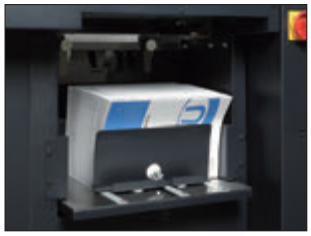
2 Book Thickness Caliper

Book thickness is automatically measured by placing the book block into the digital caliper. Thickness data automatically begins set-up of the clamp, milling and adhesive application stations, nipper opening and cover scoring. This provides operating efficiency for short-run book production.

3 Carriage Clamp

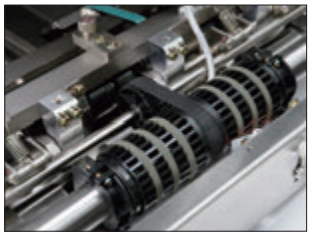
Clamp pre-opening is automatically adjusted according to the book block thickness.
A rigid clamp mechanism holds the book block firmly to produce quality books.

4 Delivery Section



The finished books are delivered to a vertical stacker located just below the book loading station. This allows a single operator to easily check the quality of finished books while continuing production.

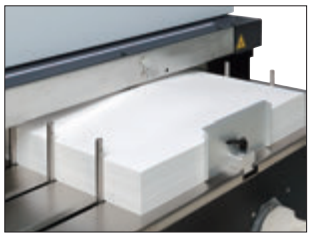
5 Suction Cover Feeder



The advanced rotary suction feed system insures fast, smooth feeding of various stock types. Even sensitive stock and digitally imaged covers are fed without any marking.

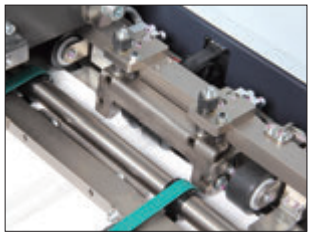
Book titles are accurately positioned on the spine. Professional quality book production with cover scoring.

6 Cover Feed Table



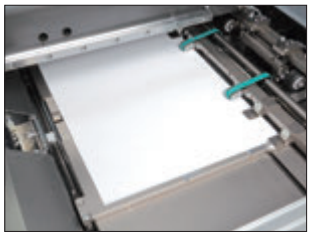
The top-feed cover station accommodates in-line scoring. Up to 70 mm / 2.7” of cover stock can be loaded for operator efficiency and longer run length capability.

7 Cover Scoring



Scoring positions are automatically set to the input thickness. Scoring depth is easily adjusted to accommodate a wide range of cover stocks and thickness. This insures a professional bind quality with sharp, square spine corners.

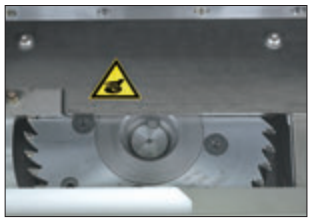
8 Cover Registration



Top and bottom transport belts provide stable transportation of various cover types, and high-precision jog mechanisms register the cover securely for consistent, accurate binding.

Strong and beautiful quality book... The quality is equivalent with commercial size binding system.

9 Milling Section



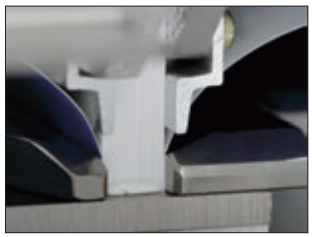
The rotary leveling and notching cutters mill the spine of a book block up to 50 mm / 2.0” thick, for optimum glue penetration and adherence. Milling depth can be adjusted from 0 to 3 mm / 0” to 0.12”.

Leveling Cutter: Mills the book spine.
Notching Cutter: Cuts grooves on the book spine to insure strong book binding.

10 Glue Tank

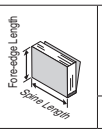
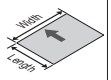
Dual application rollers and side gluing rollers ensure superior glue application to the spine for quality binding. The amount of glue applied and glue length can be adjusted through the color touchscreen.

11 Nipping Section



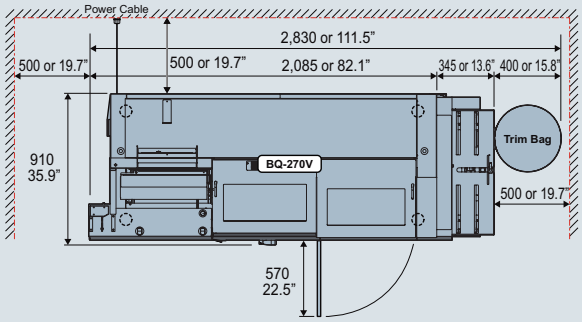
A strong, rigid nipping mechanism ensures binding quality equivalent with commercial-duty binding systems. Operators can select binding with or without milling and adjust the nipping height to achieve desired spine formation.

BQ-270V Major Specifications

Binding Type	Binding with milling, Binding without milling, and Pad binding	
Number of Carriage Clamps	1	
Book Block Size		**Spine Length × Fore-edge Length** Max. 320 x 320 mm or 12.59” x 12.59” Min. 135 x 105 mm or 5.32” x 4.14”
		A4, B5, A5, B6, A6
Book Block Thickness	1 to 50 mm or 0.04” to 2.00”	
Cover Size		**Length x Width** Max. 320 x 660 mm or 12.59” x 25.98” (up to 350 mm or 13.77” forwards from the clamp face) (up to 310 mm or 12.20” backwards from the clamp face) Min. 135 x 230 mm or 5.32” x 9.06” (up to 120 mm or 4.73” forwards from the clamp face) (up to 110 mm or 4.34” backwards from the clamp face)
Cover Weight Range	82 to 302 gsm or 22 to 80 lb	
Cover Stack Height	Max. 70 mm or 2.75”	
Glue Temperature	120 to 180 °C or 248 to 356 °F To use the BQ-270V with the glue temperature 170 °C or below, the setting is necessary by a service technician.	
Cycle Speed	Max. 500 cycles per hour * The cycle speed changes depending on the operator’s working time and the book thickness.	
Voltage / Frequency	3-phase 200 to 220 V, 50 or 60 Hz 3-phase 400 V, 50 or 60 Hz (Step down to 200 V by Transformer)	
Machine Dimensions	W2,295 x D860 x H1,545 mm or W90.4” x D33.9” x H60.9” (The parts projected from cover Not included)	
	W2,430 x D910 x H1,545 mm or W95.7” x D35.9” x H60.9” (The parts projected from cover included)	

Machine Dimensions and Installation Space [Unit : mm or inch]

Height : 1,545 or 60.9” ··· Leveling Bolt Set Position



Options

■ **Smoke Extractor VS-270V:**

The strong blower provides constant fume extractions for a comfortable operating environment.

*Sufficient space required for air circulation.

■ **Weekly Timer T-270:**

T-270 weekly timer automatically switches power on at pre-set times for quick make-ready. Time and day of the week can be set.

■ **Delivery Conveyor DV-270:**

The DV-270 high profile delivery unit is available for operator convenience. The conveyor lifts the books to a convenient height for easy unloading.

■ **Lining Guide KG-270:**

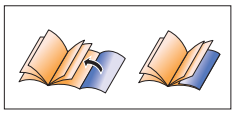
Reinforcing strips for case binding can be positioned in the correct location.

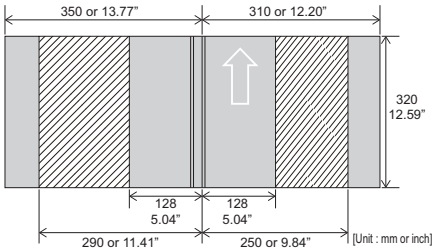
■ **Barcode Verification System BC-BQ270:**

Verify that cover and book block match by scanning with the BC-BQ270 barcode verification system.

■ **Flap Cover Binding:**

The fold line for flap covers can be scored in-line. Flap covers are then folded inward along the score line after binding.





Maximum Cover Sheet Fore-edge Length: 660 mm / 25.98”
(Up to 350 mm / 13.77” towards from the clamp face, and up to 310 mm / 12.20” backwards from the clamp face.)
Additional two scoring lines for flap cover can be made in range.

*The machine design and specifications are subject to change without any notice.

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HORIZON INTERNATIONAL, INC.

510 Kuze Ooyabu-cho, Minami-ku, Kyoto, 601-8206, Japan Phone : +81-(0)75-934-6700, Fax : +81-(0)75-934-6708, www.horizon.co.jp