

Horizon

BQ-270C



i2i System
Connectable Product

State-of-the-art Technology for improved binding quality and increased operating efficiency.

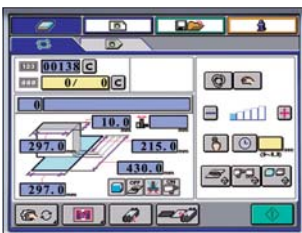
- Horizon expertise in binding and advanced automation combine to allow even low-skilled operators to produce professional quality books with sharp, square spines, from the first book to last.
- All set-up is completed in less than one minute by inputting the necessary information through the 10.4 inch color touchscreen. Changeover from A4 to A5 takes about 10 seconds.
- Produce books up to 50 mm (2.0") thick at a maximum speed of 500 cycles per hour.
- Strong, rigid nipping and cover scoring stations are comparable to larger industrial book binders, for strong, accurate binding.
- User-friendly operation and precision automation achieve short set-ups and make-readies. The BQ-270C contributes to environmentally friendly production with minimal spoilage.
- Every book can be a different thickness, for true On Demand book production. Optional thickness caliper SI-270C provides even greater production efficiency.
- The BQ-270C can be enhanced with the optional Horizon i2i JDF network flow system to optimize bindery workflows.





Easy, intuitive operation require 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 Carriage Clamp



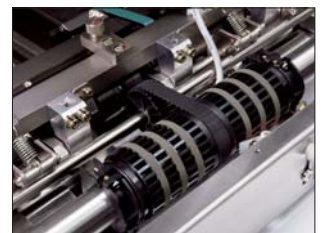
The clamp opening is automatically adjusted to the input book thickness. Just place a book into the clamp to start binding. The safety beam insures operator safety.

3 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.

4 Suction Cover Feeder

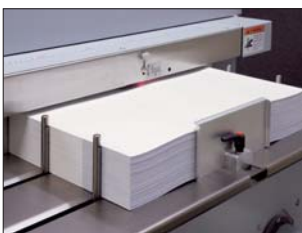


The advanced rotary suction feed system insures fast, smooth feeding of various stock types. Even sensitive stock and digitally imaged covers are fed without any marking.

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

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

5 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.

8 Milling Section



The rotary milling and roughening blades 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").

6 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.

9 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.

7 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.

10 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.

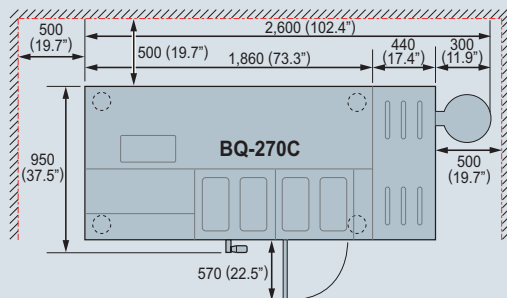
BQ-270C Major Specifications

Binding Mode	Binding with milling, Binding without milling and Padding	
Number of Carriage Clamp	1	
Book Block Size (Top-Bottom x Fore-edge)	Max. 320 x 320 mm (12.5" x 12.5")	
Book Thickness	Min. 135 x 105 mm (5.4" x 4.2") 1 to 50 mm (0.04" to 2.00")	
Cover Size (Top-Bottom x Fore-edge)	Max. 320 x 660 mm (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 (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 (22 to 80 lb)	
Cover Pile Height	Max. 70 mm (2.7")	
Warm up Time	60 min.	
Glue Temperature	120 to 180 °C (248 to 356 degrees Fahrenheit)	
Maximum Milling Depth	3 mm (0.12")	
Cycle Speed	With milling	Max. 500 cycles/hr.
	Without milling	Max. 500 cycles/hr.
	Padding	Max. 500 cycles/hr.
Voltage / Frequency	3-Phase 200 / 220 / 230 / 240 / 400 V, 50 / 60 Hz	
	3-Phase, 3 wires plus PE	
Rated Current	3-Phase 200 V, 50 Hz, 10 A (Max. 15 A)	
	3-Phase 200 V, 60 Hz, 9.4 A (Max. 15 A)	
	3-Phase 220 / 230 / 240 V, 50 Hz, 9.7 A (Max. 12.8 A)	
	3-Phase 220 / 230 / 240 V, 60 Hz, 8.5 A (Max. 12.8 A)	
	3-Phase 400 V, 50 Hz, 5.6 A (Max. 9 A)	
	3-Phase 400 V, 60 Hz, 5.1 A (Max. 6.4 A)	
Power Consumption	3-Phase 200 V, 50 Hz, 2.7 kW	
	3-Phase 200 V, 60 Hz, 2.9 kW	
	3-Phase 220 / 230 / 240 V, 50 Hz, 2.9 kW	
	3-Phase 220 / 230 / 240 V, 60 Hz, 2.78 kW	
	3-Phase 400 V, 50 Hz, 3.1 kW	
	3-Phase 400 V, 60 Hz, 3.16 kW	
Heat Output	7,870 kJ (1,880 kcal)	
Motors	2.2 kW x 1, 250 W x 1, 235 W x 1, 200 W x 4, 60 W x 1, 25 W x 1	
Heaters	2.2 kW x 1	
Machine Dimensions	2,300(W) x 950(D) x 1,500(H) mm (90.6" x 37.4" x 59.1")	
Noise Level	L _A peak : 83.3 dB, L _{Aeq} : 74.0 dB	
Machine Weight	Main Body : 900 kg (1,984.5 lb)	
	Transformer : 80 kg (176.4 lb)	

Machine Dimensions and Installation Space [Unit : mm (inch)]

Height : 1,500 (59.1")

Leveling Bolt Set Position



Options

■ Book Thickness Caliper: SI-270C

The SI-270C book thickness caliper provides ultra-short make-ready. Book thickness can be adjusted automatically while the binder is cycling, to allow true On Demand book production.



■ Smoke Extractor: VS-270II

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



■ 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.



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

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Manufactured by
Taiyo Seiki Co., Ltd.



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