

TRIMMING

iCE TRIMMER HT-1000R

Variable Trimmer



iCE Series

i = Intelligence, Integration, Interaction
C = Connection
E = Efficiency

All Connected...

Optimize the finishing process with automation and workflow.

The iCE series is a new product line-up which is designed to provide added value to our customers. A new operator interface for a more intuitive operation. Advanced automation to provide increased efficiency and productivity. In addition, connecting with an iCE LiNK workflow system provides a totally connected work environment.

ZERO MAKE-READY

The Horizon HT-1000R three-knife trimmer achieves zero make-ready on book trim size and thickness changes. Redesigned appearance and 15-inch intuitive control panel allows for easy operation.



 iCE TRIMMER



BENEFITS

REDESIGNED APPEARANCE

The HT-1000R introduces a redesigned exterior featuring an enlarged windows and integrated LED lighting for dramatically improved internal visibility.

EASY OPERATION

The HT-1000R performs automated changeovers by inputting size information in the 15-inch control panel. Using the optional code reader, HT-1000R can setup both variable thickness and format changeovers on the fly.

HIGH PRODUCTIVITY

Maximum cycle speed is 1,000 cycles per hour. Multiple books can be stacked and cut together improving productivity. There is no need to replace cutting plates during variable format book production, making it perfect for book-of-one production.

SMART BINDING SYSTEM CONFIGURATION

HT-1000R can connect to Horizon perfect binders for efficient inline production. It can also configure Smart Binding Systems covering high-mix and low-volume digital jobs.

iCE LINK CONNECTABLE

The system can be enhanced with automated workflow from upstream to post-press with iCE LiNK, which uses cloud technology, Horizon's post-press management system.



DETAILS FOR EACH DEVICE.



 **iCE TRIMMER**

1 OPERATION PANEL

The HT-1000R is equipped with a large 15-inch control panel for easy setup and fine adjustment. A newly designed handle allows for easy angle adjustment of the panel.

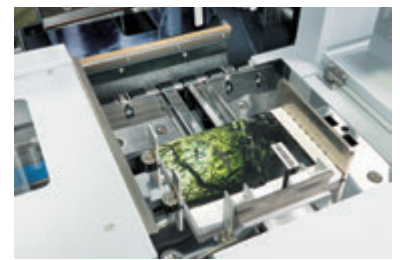
Up to 200 jobs can be memorized for repeat jobs or special applications.



2 BOOK POSITIONING

Each book is positioned at the fore-edge trim (first trim) section by a servo-motor driven pusher. Pusher move stroke and number of jogs can be adjusted through the operation panel for exact positioning of the book.

Cover overhang is diverted above the pusher for accurate book registration before trim.



3 BOOK CLAMP

Press plate replacement is not required for format changes or book thickness. Precise servo-motor driven book clamps automatically position and press each book. Single books or trimming of piled books can be performed without any manual operation.



4 TRIMMING

Independently operated trim knives provide smooth and accurate trimming. Even longer knife usage before re-sharpening. Silicon spray is applied automatically at the spine cut of the top and bottom trim knives to prevent glue from sticking to the knives.



OPTIONS.

Performance Enhancing Options

BR-1000VX CODE READER

- A code reader located at the entrance of the HT-1000R scans a code printed on each untrimmed book from above. Scanned code information is used for automated setting, book by book. Both before and after trim size can be fully variable.

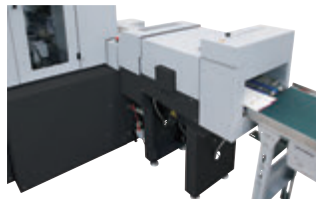


BR-1000B/1000BK BOTTOM CODE READER UNIT

- Scan the code from the bottom and start changeover on the fly for variable production.
- Install in the space of BR-1000VX or PCV-1000VX. Reader direction can be switched from upper or lower. *BR-1000VX or PCV-1000VX is required additionally.

PCV-1000VX POSITIONING CONVEYOR

- Scan code printed on upper side of the book. Push the spine of the book to the registration infeed section of HT-1000R. *Both 1D & 2D code readable.



CV8-055 / CV8-1 / CV8-2 / CV8-3 CONVEYOR

CV8-L / CV8-R CURVE CONVEYOR

- This conveyor can be connected in combination with the 0.55 m conveyor, the 1 m conveyor, the 2 m conveyor and the 3 m conveyor depending on the machine layout.



HC-1000V HAND-FEED CONVEYOR

- 1.5 m / 4.95 ft conveyor for hand feeding operation.
- This is used when the HT-1000R is used as a stand alone unit. The conveyor speed is adjustable.



DV-HT1000V DELIVERY CONVEYOR

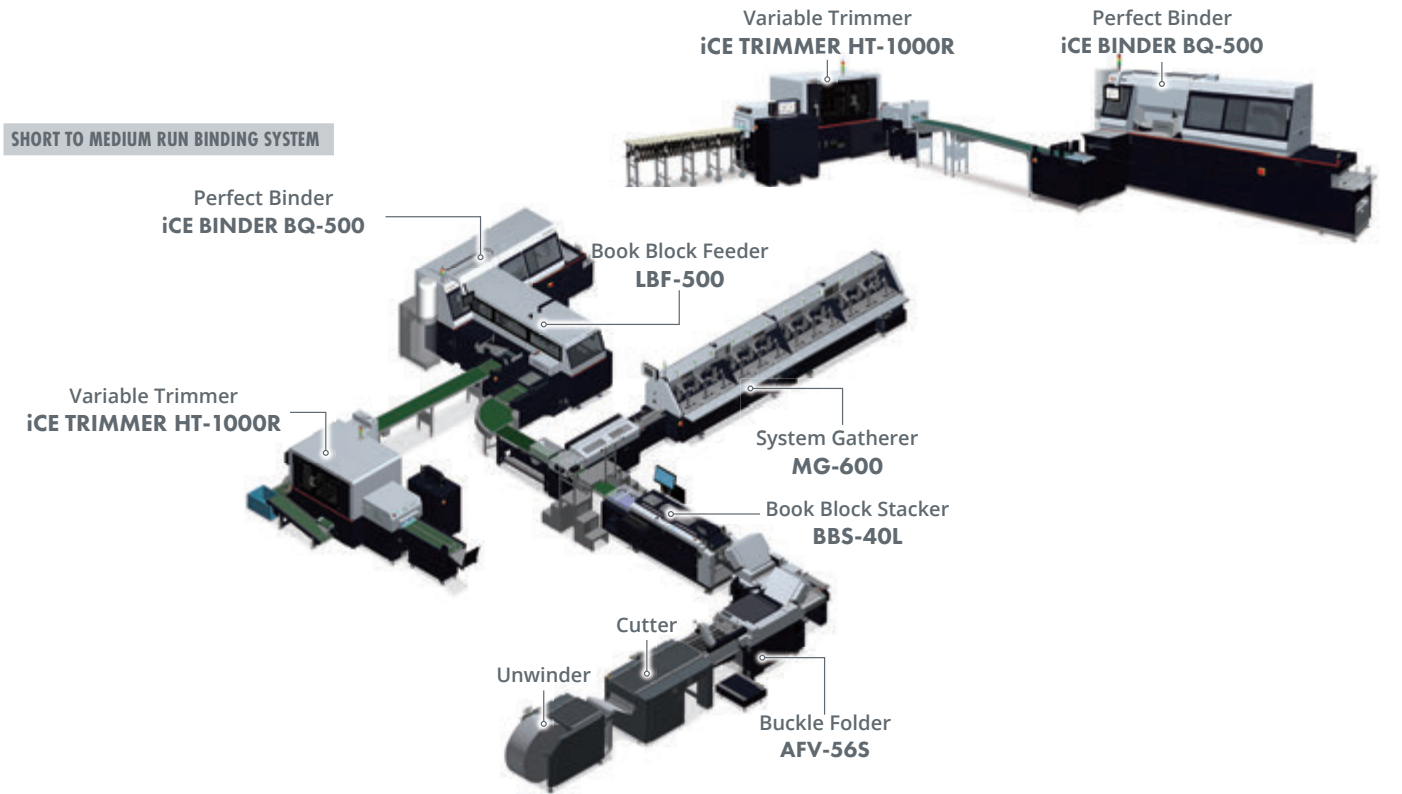
- Finished books can be stacked up to 350mm / 13.8". Delivery belt speed can adjust depending on size of the book.



NAME	MODEL	DESCRIPTION
CONVEYOR GUIDE	HCG-80	The book will be aligned on to the cooling conveyor.
STEPSTOOL	KB-80	This pier is used to cross the conveyor.
WIRED REMOTE CONTROLLER	WRC-1000V	Wired remote controller to operate the system more efficiently.
DELIVERY ROLLER CONVEYOR	CV-1000V	1 m conveyor for book delivery after trimming.

OPTIONS.

Efficient book production with inline connection of Smart Binding Systems and trimmers

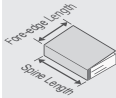


REQUIREMENT FOR INLINE OPERATION WITH PERFECT BINDER ※ EITHER UNIT IS REQUIRED.

DC-1000S DOCKING CONVEYOR

- The DC-1000S is prepared for the in-line configuration of the BQ-500 and PCV-1000VX positioning conveyor / HT-1000R three-trimmer.
- Suitable for book of one production with over-hang cover. Only one book at a time is delivered to the trimmer.
- Start/Stop can be achieved from the HT-1000R. System does not require any setup allowing for quick make-ready.



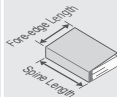
DC-1000S	
Untrimmed Book Size	 Spine Length x Fore-edge Length Max. 320 x 320 mm or 12.59" x 12.59" Min. 145 x 105 mm or 5.71" x 4.14"
Production Speed	Cycle Speed: Max. 1,000 cycles per hour
Voltage/Frequency	3-Phase 200 V, 50 / 60 Hz
Machine Dimensions	895 mm (W) x 540 mm (D) x 835 mm (H) or 35.3" (W) x 21.3" (D) x 32.9" (H)

*The machine design and specifications are subject to change without any notice.
 *Specifications may vary depending on the job, paper quality, environmental influences, and various other factors. Please do a test run before starting production.

SS-800 STACK STREAM

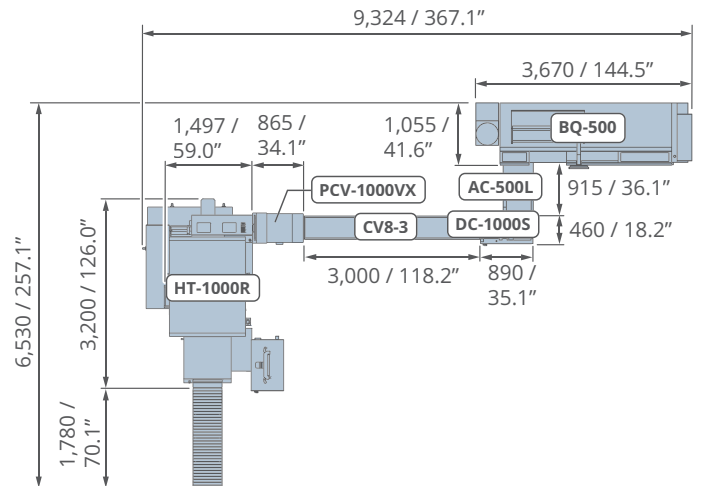
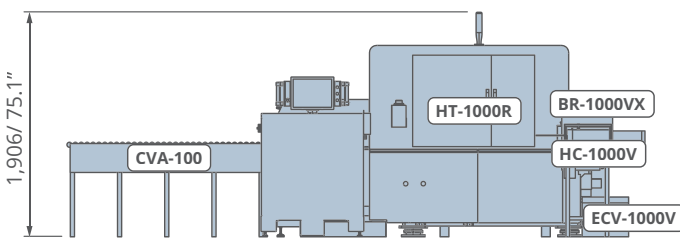
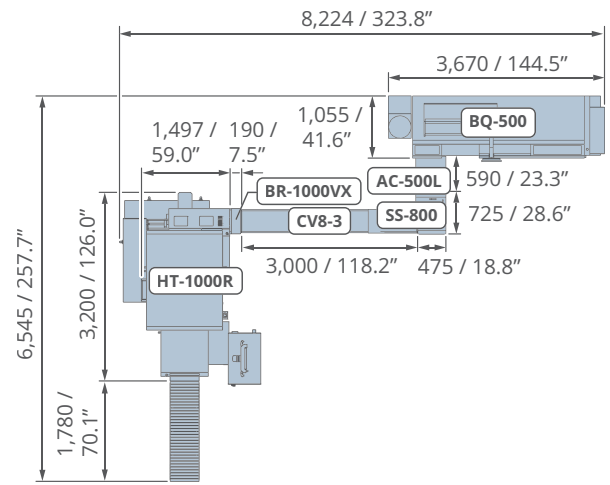
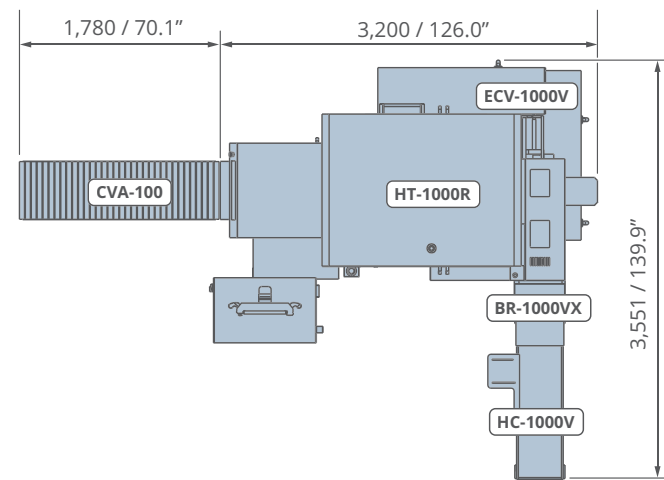
- The SS-800 accumulates the bound books and transports them to the cooling conveyor.
- Settings such as the number of stacked books can be set through the touch panel of the BQ-500.



SS-800	
Untrimmed Book Size	 Spine Length x Fore-edge Length Max. 320 x 320 mm or 12.595" x 12.595" Min. 145 x 105 mm or 5.710" x 4.135"
Book Thickness	Max. 65 mm or 2.56" Min. 2 mm or 0.08" (Machine can process books with 1 mm or 0.04" thickness depending on condition.)
Pile Height	Max. 65 mm or 2.56" Min. 1 mm or 0.042" Pile height is limited depending on book thickness. (Height of transport pusher is 54 mm or 2.126" and all piled books should be touching the transport pusher.)
Production Speed	Max. 1,000 cycles per hour (Linked operation) Max. 1,350 cycles per hour (Standalone operation)
Voltage/Frequency	3-phase 200 to 230V, 50 / 60 Hz
Machine Dimensions	Main Body: 475 mm (W) x 475 mm (D) x 890 mm (H) or 18.701" (W) x 18.701" (D) x 35.040" (H) Electrical Box: 470 mm (W) x 275 mm (D) x 465 mm (H) or 18.504" (W) x 10.827" (H) x 18.308" (H)

SPECIFICATIONS.

Machine Dimensions. (Unit: mm or inch)



- Prepare enough installation space depending on the layout. The area about 700 mm or 27.6" around the machine is necessary space.

HT-1000R

Untrimmed Book Size 	Max. Spine Length 350 x Fore-edge Length 320 mm or 13.780" x 12.600" Limitation: The maximum length from the center to top or bottom is 175 mm or 6.889".
	Min. Spine Length 148 x Fore-edge Length 105 mm or 5.825" x 4.130" Limitation: The minimum length from the center to top or bottom is 74 mm or 2.91".
Finished Book Size 	Max. Spine Length 340 x Fore-edge Length 300 mm or 13.390" x 11.815" Limitation: The maximum length from the center to top or bottom is 170 mm or 6.69".
	Min. Spine Length 145 x Fore-edge Length 101.6 mm or 5.705" x 4.00" Limitation: The minimum length from the center to top or bottom is 72.5 mm or 2.85".
Trim Width	Fore-edge: Max. 110 mm or 4.330" Min. 1 mm or 0.04"
	Top and bottom: Max. 80 mm or 3.150" each Min. 1 mm or 0.04" each
Trim Height	1 to 65 mm or 0.04" to 2.560"
Book Weight	Transport Speed Level 7: 2.8 kg (6.16 lb) or less Transport Speed Level 6: 4.0 kg (8.80 lb) or less Transport Speed Level 5: 5.2 kg (11.45 lb) or less
Height of Entrance Section Pusher	56 mm or 2.20"

Clamp System and Load	Servo Motor 2 kN to 8 kN
	400 to 1,000 cycles per hour * Higher production can be reached with piled books. * Production speed depends on trim settings.
Production Speed	3-Phase 200 to 220 V, 50 or 60 Hz 3-Phase 380 to 415 V, 50 or 60 Hz (Step down to 200V by Transformer)
Voltage/Frequency	W2,027 x D3,200 x H1,622 mm or W79.8" x D126.0" x H63.9" (The height including the pole lamp is 1,900 mm or 74.8")
Machine Dimensions	Rated Output of Prime Mover (Reference) : 50 or 60 Hz, 3.7 kW Required Pressure: 0.55 to 0.95 MPa Required Discharge: 200 Liters per minute or more
Recommended Air Source	

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COMPRESSOR MAJOR SPECIFICATIONS (TO BE ARRANGED LOCALLY)

Power Consumption	3.7 kW
Pressure	0.85 to 0.7 MPa
Discharge	375 L/min.

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