

Horizon

CUTTING

HT-1000V

Variable Trimmer



ZERO MAKE-READY

The Horizon HT-1000V three-knife trimmer achieves zero make-ready on book trim size and thickness changes. Well suited for short run production, and book of one production can also be achieved through barcode driven set-up.



BENEFIT

AUTOMATED SET-UP

The HT-1000V is set-up automatically on the fly by reading a barcode at the entrance of the trimmer. The system also is capable of automatic set-up from the operator panel for same size production runs.

VARIABLE SIZE TRIMMING

One-to-one book production with variable sizes can be produced. Both untrimmed and trimmed sizes can be variable for true variable format production.

IN-LINE PRODUCTION

The HT-1000V can be placed in-line with Horizon perfect binders to maximize finishing automation and minimize human operation error.

HIGH SPEED OPERATION

Maximum cycle speed of the HT-1000V is 1,000 books per hour. For example, A4 to A5 alternating sequence (book of one production) can be *950 books per hour.

*Production speed depends on book condition and preparation of untrimmed books.

JDF WORKFLOW

The HT-1000V can be connected with the Horizon pXnet JDF workflow for finishing production efficiency and management.



DETAILS FOR EACH DEVICE.



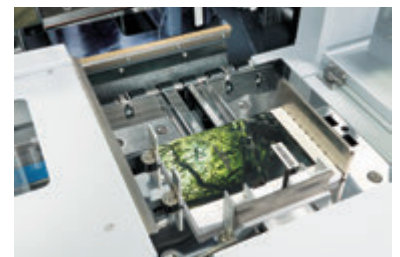
1 OPERATION PANEL

The HT-1000V is equipped with a new generation touch screen. Uniquely designed user interface provides intuitive operation and fine-tune adjustment if necessary. 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.

| 1000VX BARCODE READER

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

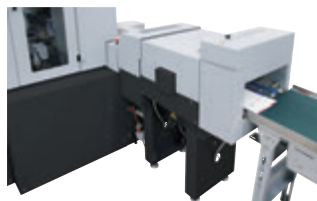


| BR-1000B/1000BK BOTTOM CODE READER UNIT

- 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-1000V. *Both 1D & 2D code readable.



| CV8-1 / CV8-2 / CV8-3 CONVEYOR

| CV8-L / CV8-R CURVE CONVEYOR

- This conveyor can be connected in combination with 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-1000V is used as a stand alone unit. The conveyor speed is adjustable.



| DV-HT1000V DELIVERY CONVEYOR

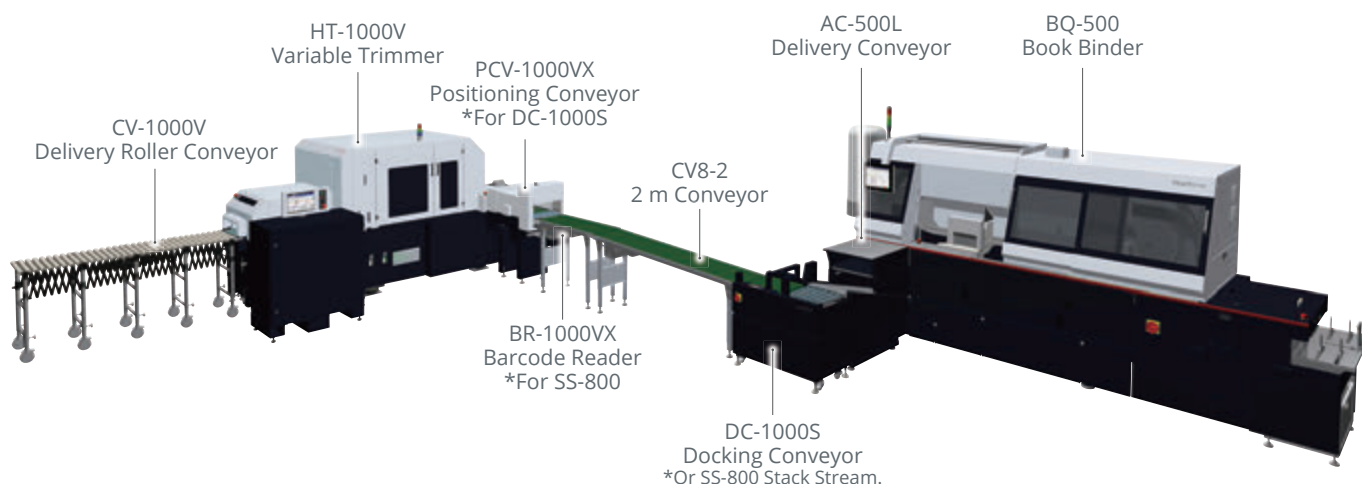
- Finished books can be stacked up to 350mm / 13.8". Delivery belt speed can adjust depending on size of the book.



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.
POSITIONING CONVEYOR	CV-1000VX	1 m conveyor for book delivery after trimming.

OPTIONS.

Efficient Flow of Book Binding with In-line Connection to Trimmer from Horizon Book Binder.

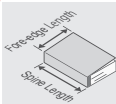


REQUIREMENT FOR INLINE OPERATION WITH PERFECT BINDER ※ EITHER UNIT IS REQUIRED.

DC-1000S DOCKING CONVEYOR

- The DC-1000S is prepared for the in-line configuration of the BQ-500 and PCV-1000VX positioning conveyor / HT-1000V 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-1000V. 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)	

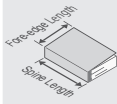
*The machine design and specifications are subject to change without any notice.

*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

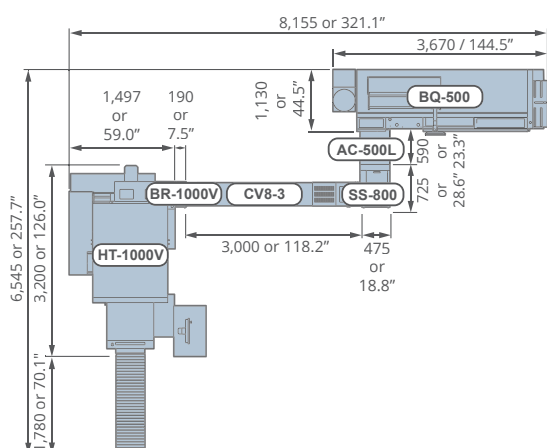
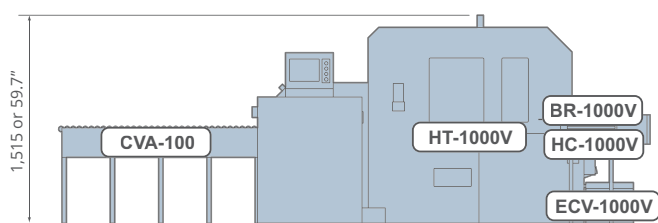
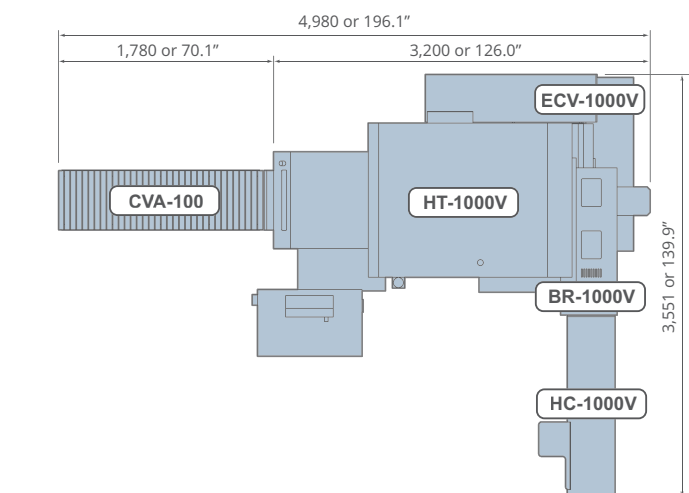
- The SS-800 accumulates the bound books and transports them to the cooling conveyor.
- Settings such as the number of stacked books can be set through the touch panel of the BQ-500.



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.

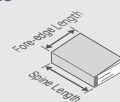
Machine Dimensions. (Unit: mm or inch)



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

HT-1000V

Untrimmed Book Size

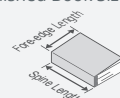


Max. Spine Length 350 x Fore-edge Length 320 mm or 13.780" x 12.600"
Limitation: The maximum length from the center to top or bottom is 175 mm or 6.889".

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

Production Speed

400 to 1,000 cycles per hour
* Higher production can be reached with piled books.
* Production speed depends on trim settings.

Voltage/Frequency

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)

Machine Dimensions

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 1,722 mm or 67.8")

Recommended Air Source

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

*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.

COMPRESSOR MAJOR SPECIFICATIONS (TO BE ARRANGED LOCALLY)

Power Consumption

3.7 kW

Pressure

0.85 to 0.7 MPa

Discharge

375 L/min.

MORE AT
HORIZON.CO.JP



Horizon

Horizon International Inc.

1601 Asahi, Shinasahicho, Takashima,
Shiga, 520-1501, Japan
Phone : +81-740-25-4570
Fax : +81-740-25-5820
www.horizon.co.jp

Horizon GmbH

Pascalstrasse 20
25451 Quickborn / Germany
Phone : +49 4106 8042-0
Fax : +49 4106 8042-199
www.horizon.de