

# 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.



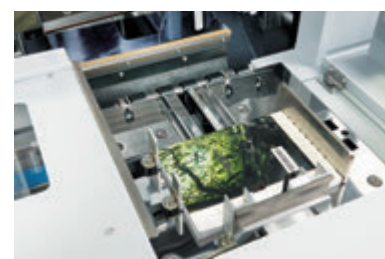
## 1 OPERATION PANEL

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.



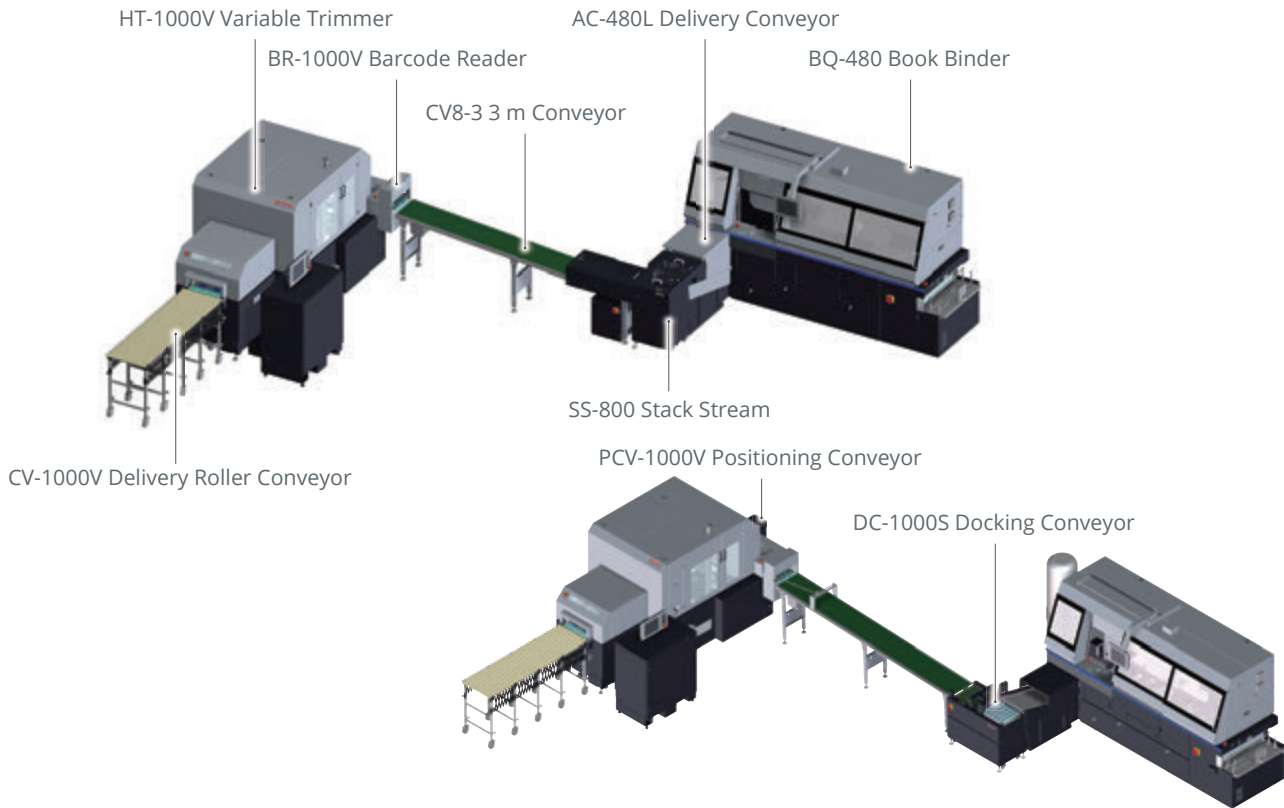
## 4 TRIMMING

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.

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

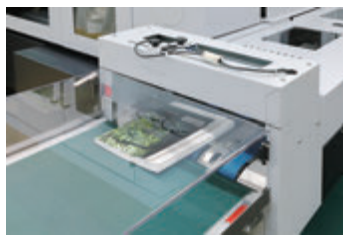


### SS-800 STACK STREAM

- Books from the binder are stacked and then transferred on to the cooling conveyor.

### BR-1000V/1000VX IMPACT PERFORATION UNIT

- 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.



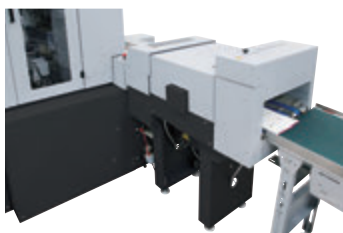
### DC-1000S DOCKING CONVEYOR

- The DC-1000S is prepared for the in-line configuration of the BQ-470 / BQ-480 perfect binder and PCV-1000V 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.



### PCV-1000V/1000VX POSITIONING CONVEYOR

- This unit reads the barcode printed on the book in the infeed section, and positions the books automatically.
- You do not have to move the book feed guide manually anymore.



DC-1000S		
Untrimmed Book Size		<b>Spine Length x Fore-edge Length</b> 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)	

# OPTIONS.

## | HCG-80 CONVEYOR GUIDE

- The book will be aligned on to the cooling conveyor.

## | KB-80 PIER UNIT

- This pier is used to cross the conveyor.

## | CV8-1 1 M CONVEYOR

## | CV8-2 2 M CONVEYOR

## | CV8-3 3 M 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.



## | WRC-1000V WIRED REMOTE CONTROLLER

- Wired remote controller to operate the system more efficiently.

## | SSP-1000V SILICONE SPRAY

- The silicone will be sprayed to the top-bottom knife to prevent it attaching the glue.



## | CV-1000V DELIVERY ROLLER CONVEYOR

- 1 m conveyor for book delivery after trimming.

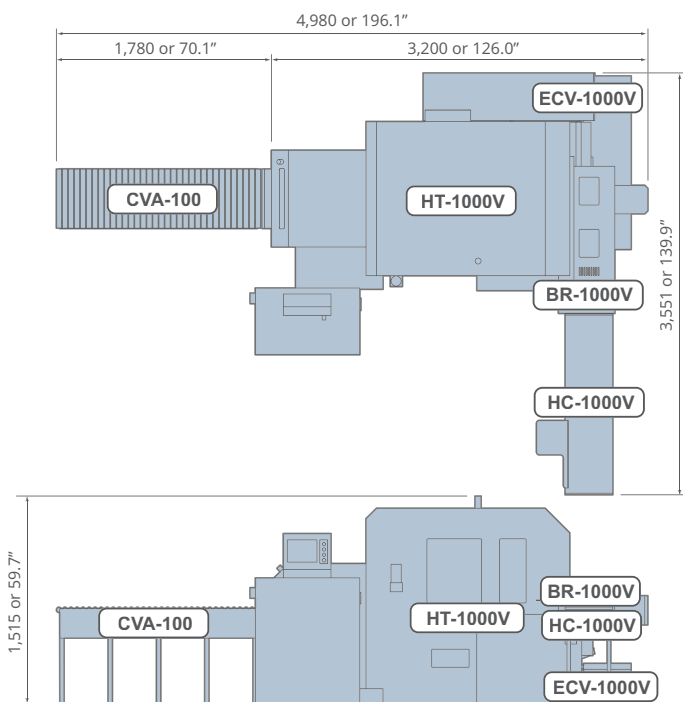
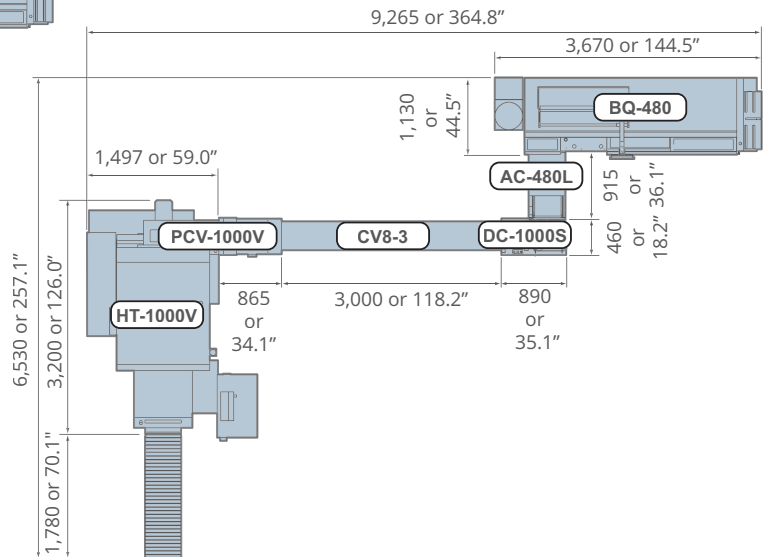
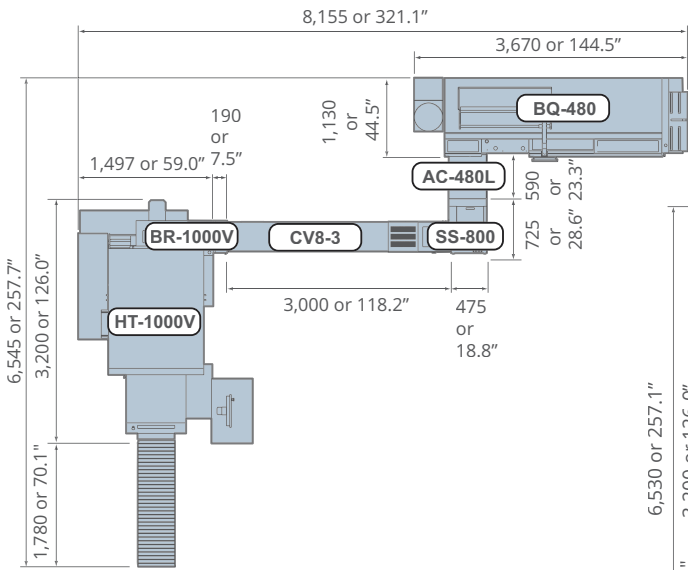
## | HC-1000V HAND-FEED CONVEYOR

- 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.



# SPECIFICATIONS.

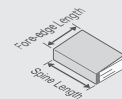
## Machine Dimensions. (Unit: mm or inch)



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

### HT-1000V

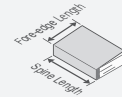
#### Untrimmed Book Size



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"  
 Min. 1 mm or 0.04"

#### Trim Height

1 to 65 mm or 0.04" to 2.560"

#### Book Weight

Transport Speed Level 7: 2.8 kg or 6.16 lb or less  
 Transport Speed Level 6: 4.0 kg or 8.80 lb or less  
 Transport Speed Level 5: 5.2 kg or 11.45 lb or less

#### Height of Entrance Section Pusher

56 mm or 2.20"

#### Clamp System and Pressure

Servo Motor  
 2 kN to 8kN

#### Production Speed

400 to 1,000 cycles per hour  
 (Higher production can be reached with piled books.)  
 In case of the following trimmed condition, the production speed can reach to 1,000 cycles per hour.  
 - Constant untrimmed size to constant finished size  
 - Constant untrimmed size to A4/letter size through A5/half letter finished size

#### 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")

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

### 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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