Horizon



ACHIEVE EFFICIENT FOR BOTH OFFSET AND DIGITAL WORKFLOWS.

Meet everchanging market demands with high productivity, superior automation, user friendliness and consistent quality.



BENEFITS

PRODUCTIVITY AND LABOR SAVING

Easy changeover to achieve efficient production even with short runs. MiniCABS can be used by inexperienced workers by standardizing operations, reduce labor costs while increasing efficiency.

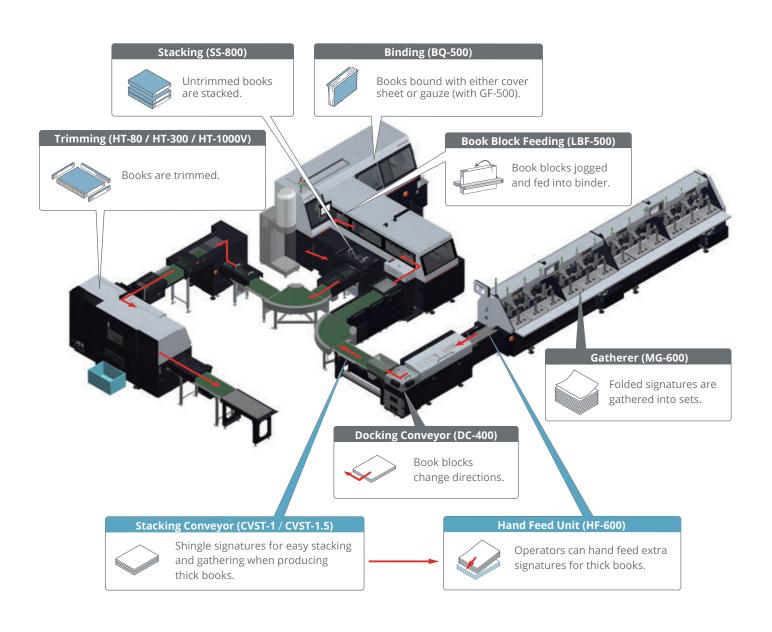
SMALL FOOTPRINT

From gathering to finish trimming, MiniCABS is more compact making it easier to operate and monitor machine status.

VERSATILE CONFIGURATION

This system offers hybrid capabilities to produce books for both offset and digital printing workflows. In addition to utilizing the system with signature gathering stations, users can also integrate it with roll-to-bookblock or cutsheet-to-bookblock systems. Incorporating an ESF-1000 End Sheet Feeder and GF-500 Gauze Feeders allows for inline case bind preparation.

PRODUCTION FLOW

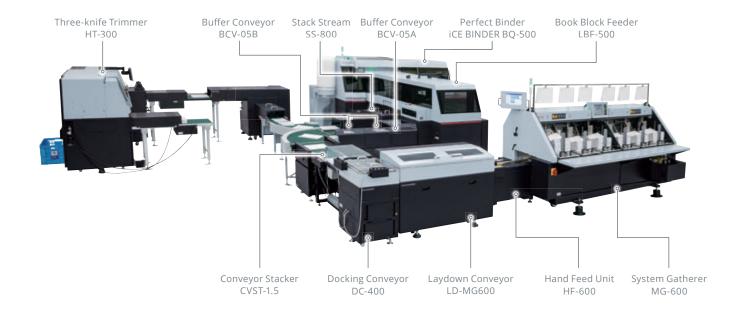


Detail video for thick book production



SYSTEM CONFIGURATION.

*The following configuration is an example. System configuration and layout will change depending on the customer's needs.



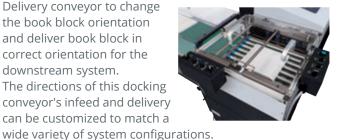
LD-MG600 LAYDOWN CONVEYOR

■ Transport conveyor to deliver book blocks out from the gathering station.



DC-400 DOCKING CONVEYOR

■ Delivery conveyor to change the book block orientation and deliver book block in correct orientation for the downstream system. The directions of this docking conveyor's infeed and delivery can be customized to match a



CVST-1/CVST-1.5 CONVEYOR STACKER

Delivery conveyor to transport book blocks to the book block feeding system, 1 or 1.5 m conveyors are available for selections.

This conveyor features an accumulation function that allows operators to shingle signatures for stacking.



*Accumulation function limited to production speeds of 2,000 cycles per hour.

DC-400			
Book Block Size	For edge Leigh	Spine Length x Fore-edge Length Max. 320 x 320mm or 12.59" x 12.59" Min. 148 x 105 mm or 5.83" x 4.14"	
Pile Height	Max. 100 mm or 3.94"		
Standard Table Height	485 mm or 695 mm / 19.09" or 27.36" (Adjustment range by the adjuster: 50 mm or 1.97")		
Voltage/Frequency	Single Phase 200 to 240 V, 50 / 60 Hz		
Machine Dimensions	W504 x D500 x H910 mm or W19.84" x D19.69" x H27.56		
Machine Weight	94.0 kg or 207.2 lb		
	*Dloog	contact regional dealer for possible configurations	

*Please contact regional dealer for possible configurations.

^{*}Refer to brochure for the details of each unit.

UNIT LIST

		Model		Description	Remarks
			MG-600a	System Gatherer	For 1st unit
		Required	HF-600	Hand Feed Unit for MG-600	For thick book production
			MG-600b	System Gatherer For 2nd, 3rd, 5th and 6th station.	
G			MG-600c	System Gatherer	For 4th station.
			IC2-MG600a	Image Checker	Check the image of each signature to prevent incorrect loading. (For MG-600a first station).
	Satherer		IC2-MG600b	Image Checker	Check the image of each signature to prevent incorrect loading. (For MG-600b/c second and latter station).
		Option	TD-600	Thickness Detector	Detects the thickness of gathered signatures. (The HF-600 is required.)
			RU-600	Reject Unit	Rejects faulty collated signatures. (The HF-600 is required.)
			ST-600	Stacker Unit	Gathering process by MG-600 can be done faster (RU-600 is required.)
			EU-600	Extension Unit	Between the MG-600 and LD-MG600. (Required when RU-600 is connected.)
			RUST-SP	Set Plate	Leveling mount for RU-600 and ST-600. (Required when RU-600 is connected.)
			LDMG-SP	Set Plate	Leveling mount for MG-600 (Required for each unit of MG-600)
		Required	LD-MG600	Laydown Conveyor	Laydown conveyor Docking conveyor that lay book block is laid horizontally and transported to the docking conveyor.
	Docking		DC-400	Docking Conveyor	Docking conveyor changing the transport direction of book block
	onveyor	Coloction	CVST-1	Conveyor Stacker	Transport conveyor between MG-600 and LBF-500 (1m)
		Selection	CVST-1.5	Conveyor Stacker	Transport conveyor between MG-600 and LBF-500 (1.5m)
			BQ-500	Perfect Binder	-
			LBF-500	Book Block Feeder	Automatic book block feeding into BQ-500
Binder *		Required	BCV-05A	Buffer Conveyor	Infeed conveyor suitable for handling loose sheet book blocks. Each unit transports one book block to prevent loose sheet book blocks from hitting
			BCV-05B	Buffer Conveyor	each other on the conveyor causing misaligned pages. *BCV-05B up to 9 units can be connected to the BCV-05A.
		Option	CV8 series	Conveyor	Straight conveyor (1m, 2m, 3m), Curve conveyor (Right and left)
			CV8-1	1m Conveyor	1m conveyor
			CV8-2	2m Conveyor	2m conveyor
			CV8-3	3m Conveyor	3m conveyor
C	onveyor *	Selection	CV8-L / CV8-R	Curve Conveyor	Curve conveyor
	Jiiveyoi	Sciection	CV3H-L / CV3H-R	Curve Conveyor	Curve conveyor between EL-300 and HT-300.
			CV3-1	1m Conveyor	1m conveyor between EL-300 and HT-300.
			CV3-2	2m Conveyor	2m conveyor between EL-300 and HT-300.
			CV3-3	3m Conveyor	3m conveyor between EL-300 and HT-300.
			HT-80	Three-side Trimmer	-
	HT-80	Required	SS-800	Stack Stream	Books from the binder are stacked and then transferred on to the cooling conveyor.
		Option	DV-HT80	Delivery Conveyor	Motorized conveyor with the receiving tray to stack the finished books.
			HT-300	Three-side Trimmer	
		Required	BF-P300	Pusher Feeder	Push books transported by the conveyor to feed into the HT300.
≓			SS-800	Stack Stream	Books from the binder are stacked. Stacking number can be set from touch panel on BQ-500.
imme			EL-300	Elevator Conveyor	The EL-300 receives the books from the SS-800 and elevates them to the height of the infeed of the HT-300 for inline production. Motorized conveyor with the receiving tray to stack the finished books.
er (Sel	HT-300	Required Choose one	DV-HT300	Delivery Conveyor	(CV-F300 is required) Motorized 1m length conveyor to deliver the finished books.
Trimmer (Selection) *		Required Choose one	CV-300	Conveyor	(CV-F300 or CV-5300 is required)
			CV-F300	Front Conveyor	Directional conveyor option to the front.
			CV-S300	Side Conveyor	Directional conveyor option to the side. (CV-300 is required)
		Option	CV-R300	Conveyor	A simple free-wheeling roller conveyor to extend the delivery conveyor. (Option for CV-300 Conveyor)
		Required	HT-1000V	Three-side Trimmer	Pooks from the hinder are stacked and then transferred as to the see"
	HT-1000V	Selection	SS-800	Stack Stream	Books from the binder are stacked and then transferred on to the cooling conveyor. Books from the binder are transported to to HT-1000V changing the direction
			DC-1000S	Docking Conveyor	one book at a time.
	Option		DV-HT1000V	Delivery Conveyor	Motorized conveyor with the receiving tray to stack the finished books.
					*W

*We also offer a wide range of other options. Please contact our sales for any details.

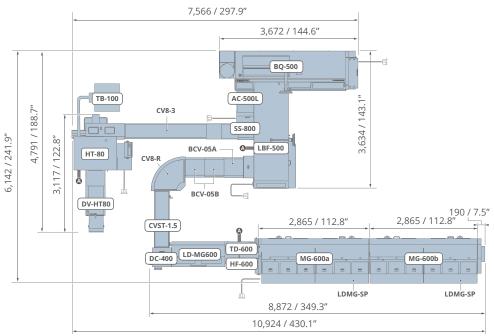
SPECIFICATIONS.

Machine Dimensions. (Unit: mm / inch)

CONFIGURATION 1 (Top View)

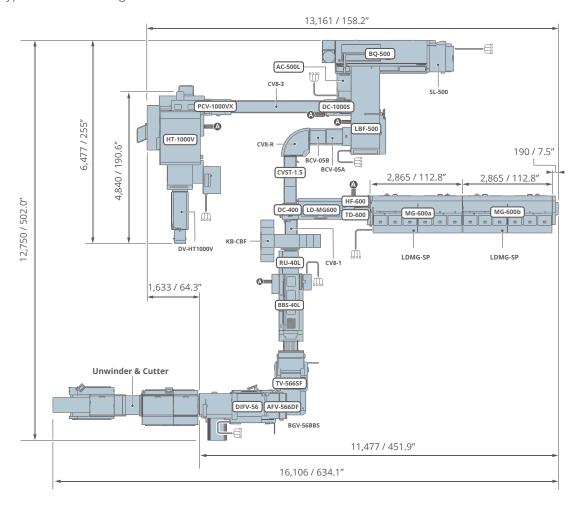
*The following configuration is an example. System configuration and layout will change depending on the customer's needs.

■ MG-600 + LD-MG600 + LBF-500 + BQ-500 + HT-80



CONFIGURATION 2 (Top View)

Hybrid type for offset and digital



Book Block Size Spine Length x Fore-edge Length Max. 320 x 275 mm or 12.59" x 10.82" Min. 148 x 105 mm or 5.83" x 4.14" Transport Thickness Max. 50 mm / 1.96" (when pressed) Max. 800 cycles per hour (as system)* Max. 2,000 cycles per hour (gatherer only) *When book thickness is 15 mm / 0.6" or greater. Voltage/Frequency LD-MG600: Depends on the MG-600 DC-400: Single Phase 200 to 240 V, 50 or 60 Hz

MG-600			
Sheet Size	Max. W385 x L275 mm or 15.15" x 10.8" Min. W148 x L105 mm or 5.83" x 4.14"		
Sheet Weight Range	Normal Signature sheet Single Sheet: 64 gsm of Normal Paper, 85 gsm of Coated Paper		
Bin Stack Height	Normal paper signature : Max. 300 mm or 11.81" Coated paper signature : Max. 150 mm or 5.90"		
Max. Transport Thickness	Max. 50 mm or 1.96"		

BQ-500			
Binding Type	Binding with milling, Binding without milling and Pad binding		
Glue Type	EVA Glue or I	PUR Glue (Tank is optional)	
Number of Carriage Clamps	4		
Book Block Size	For e-ode Length	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"	
Book Block Thickness	Min. 1 mm or 0.04" Max. 65 mm or 2.56"		
Cover Size	Width	Length x Width Max. 320 x 670 mm or 12.59" x 26.37" Min. 135 x 225 mm or 5.32" x 8.86"	
Cover Weight Range	Normal Paper 81.4 to 302.4 gsm Coated Paper 104.7 to 348.9 gsm		

LBF-500			
Type of Book Block	Loose sheet block with single sheets or signatures Glue tacked or sewn book blocks		
Book Block 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"		
Book Block Thickness	Min. 1 mm or 0.4" Max. 65 mm or 2.55"		
Weight Range of Sheet for Book Block	Single Sheet: Bond Paper 81.4 gsm or more Coated Paper 104.7 gsm or more Signature: Bond Paper 52.3 gsm or more Coated Paper 84.9 gsm or more		

AIR SPECIFICATION

	Required Pressure	Required Discharge
BBS-40L	0.5 to 0.7 MPa	100 L/min.
TD-600	0.6 to 0.95 MPa	7 L/min.
RU-600 / CST-600	0.6 to 0.95 MPa	75 L/min.
LBF-500	0.55 to 0.95 MPa	45 L/min.
HT-80	0.55 to 0.95 MPa	160 L / min.
HT-300	0.55 to 0.95 MPa	145 L / min. (ANR)
HT-1000V	0.55 to 0.95 MPa	200L / min.

HT-80			
Untrimmed Book Size	Spine Length x Fore-edge Length Max. 330 x 330 mm or 13" x 13" 350 x 330 mm or 13.78" x 13" (When Using the Optional C-80L) Min. 145 x 105 mm or 5.71" x 4.135"		
Finished Book Size	Series and	Spine Length x Fore-edge Length Max. 300 x 300 mm or 11.81" x 11.81" 340 x 300 mm or 13.385" x 11.81" (When Using the Optional C-80L) Min. 139 x 99 mm or 5.475" x 3.9"	
Standard Size Trimmed by Standard Accessory	A4, 8.5" x 11", A5, 5.5" x 8.5"		
Trim Height	1 to 51 mm or 0.04" to 2"		
Clamp System and Pressure	Servo Motor 4 kN to 8 kN (10 kN depending on Condition)		

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	HT-3	00	
Untrimmed	Standard Rotary Tables		
Book Size (Spine Length x Fore-	Table A for portrait	Max. 350 × 235 mm or 13.775" × 9.250" Min. 277 × 206 mm or 10.910" x 8.115"	
edge Length)	Table B for portrait	Max. 350 × 235 mm or 13.775" × 9.250" Min. 204 × 136 mm or 8.035" x 5.355"	
Control of the Contro	Table C for landscape	Max. 350 x 320 mm or 13.775" x 12.595" Min. 211 × 275 mm or 8.310" x 10.830"	
	Table K for A6	Max. 320 × 219 mm or 12.595" × 8.620" Min. 152 × 107 mm or 5.985" x 4.215"	
	Standard Rotary Tables		
Finished Book Size	Table A for portrait	Max. 340 × 230 mm or 13.385" × 9.055" Min. 273 × 204 mm or 10.750" × 8.035"	
(Spine Length x Fore- edge Length)	Table B for portrait	Max. 340 × 230 mm or 13.385" × 9.055" Min. 200 × 134 mm or 7.875" × 5.280"	
18 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Table C for landscape	Max. 340 × 305 mm or 13.385" × 12.005" Min. 207 × 273 mm or 8.150" × 10.750"	
Silve Large	Table K for A6	Max. 305 × 217 mm or 12.005" × 8.540" Min. 148 × 105 mm or 5.830" × 4.135"	
Trim Width	Max. 99.9 mm or 3.930" Min. 2 mm or 0.080" "0" can be entered (no trimming)		
Trim Height	Max. 51 mm or 2.005" Min. 1 mm or 0.040"		
Clamp System and Load	Servo motor 1 to 7 kN (100 to 700 kgf or 224 to 1573 lb)		

HT-1000V				
Untrimmed	Max. Spine Length 350 x Fore-edge Length 320 mm or 13.780" x 12.600"			
Book Size	Limitation : The maximum length from the center to top or bottom is 175 mm or 6.889".			
State Control	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"			
Finished Book Size	Limitation : The maximum length from the center to top or bottom is 170 mm or 6.69".			
Sin land	Min. Spine Length 145 x Fore-edge Length 101.6 mm or $5.705'' \times 4.00''$			
	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"			
irim wiath	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"			
Clamp System and Pressure	Servo Motor 2 kN to 8 kN			

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