Horizon



CABS5000

# INNOVATIVE BINDING SYSTEM



## Computer assisted operation simplifies setup procedures. High speed binding innovations from Horizon.

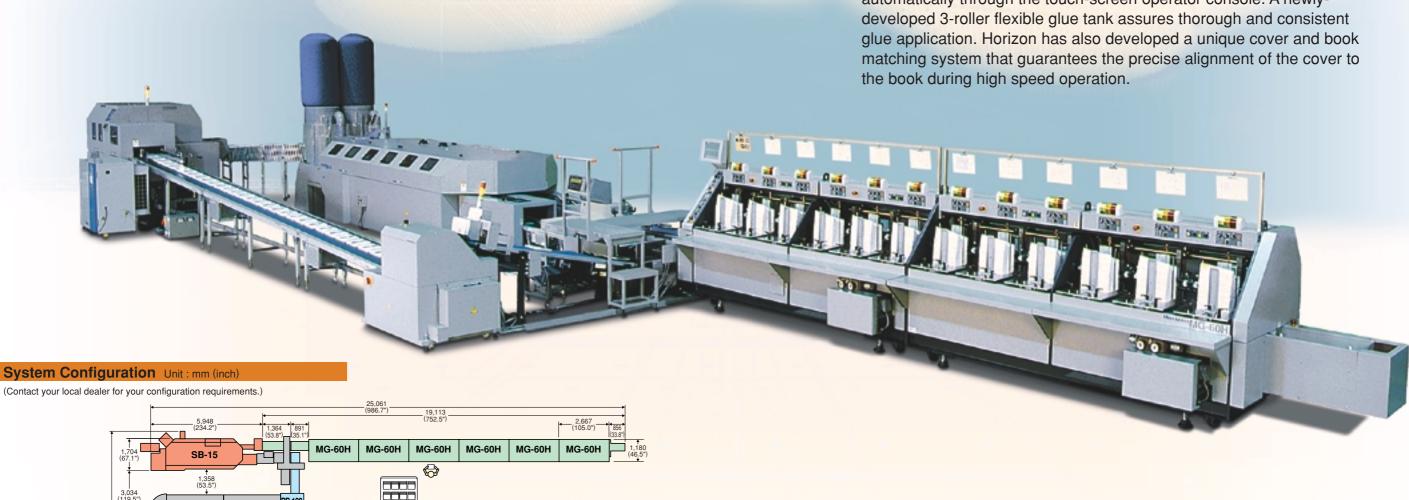
Horizon introduces the new CABS5000 in-line perfect binding system. The new CAB system consists of the MG-60H six-hopper gatherer, the SB-15 fifteen-clamp perfect binder, and the HT-101 three-knife trimmer. Horizon's advanced technology combines the highest quality perfect binding with simple and easy operation.

#### **Gatherer MG-60H**

Up to six 6-hopper signature gathering sections can be combined to create a 12, 18, 24, 30, or 36-hopper system. The air suction and the grip arm feeding system on the MG-60H can feed single sheets, single folded sheets, or signatures up to 32-pages. Horizon's state-of-the-art detection system will detect misfeeds or double feeding to insure book integrity. An optional optical reading system is available for each hopper to insure proper signature orientation during re-loads.

#### **Perfect Binder SB-15**

The SB-15 is a 15-clamp perfect binder which offers simple operation and superior quality binding results. All system setups are performed automatically through the touch-screen operator console. A newly-



### (Contact your local dealer for your configuration requirements.)

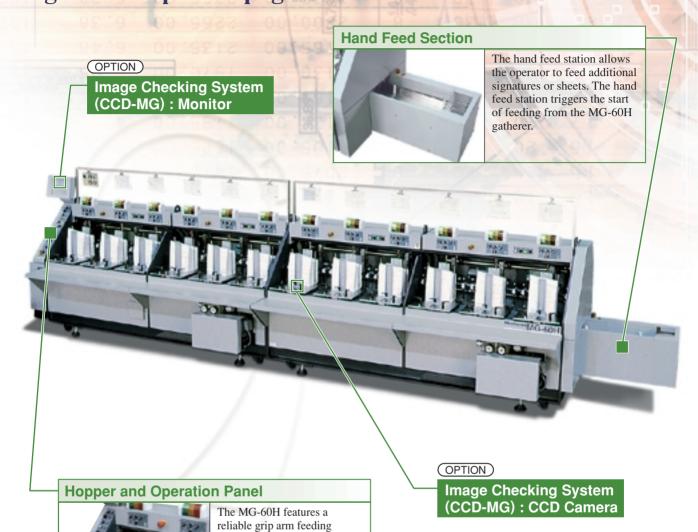
MG-60H MG-60H MG-60H MG-60H

#### Three-knife Trimmer HT-101

The HT-101 features automated setup for different book sizes and precision cutting accuracy. Job changeovers are performed simply and quickly through the color LCD touch-screen. Unlike other three-knife trimming systems, there are very few replacement parts when changing over the HT-101. Knife height and cutting depth are easily adjusted through the color LCD touch-screen.

Gatherer MG-60H

# The MG-60H 6-hopper modular gathering system (36 hoppers maximum) can feed single sheets, single folded sheets, or signatures up to 32 pages.



OPTION For MG-60H

#### ■ Image Checking System (CCD-MG)





mechanism. Each feeding section is equipped with a lamp to allow the operator to easily monitor feeding conditions. No special skill is required for operating the MG-60H.

The CCD cameras check the image on each feed cycle to prevent incorrect signature or sheet feeding, to insure document integrity. The captured images are displayed on the monitor.

MG-60H Major Specifications										
Module Config	uration	MG-60Ha / MG-60Hb / MG-60Hb / MG-60Hc / MG-60Hb / MG-60Hb								
Number of Ho	oppers	6 hoppers /	hoppers / 12 hoppers / 18 hoppers / 24 hoppers / 30 hoppers / 36 hoppers							
Sheet Size		2 Fe	_	① 330 mm (12.99 182 mm (7.17*)		.84") (Option:	5 to A4 al attachment le of A6 size.)			
Sheet Weight Range		Normal Signature Sheet, 4-page to 32-page Signatures								
Sheet Feeding System		Air suction bottom feed								
Bin Pile Height		Normal Paper Signature : Max. 300 mm (11.81")								
		Coated Paper Signature : Max. 150 mm (5.90")								
Max. Transport Thickness		Max. 50 mm (1.96")								
Production Speed		Max. 5,200 sets/hr. (When SB-15 is interlocked)								
Error Detector / Indicator		Misfeeds, Double Feeds, Jams (Linear Detection System)								
Other Function		Synchronized collation starting by hand feed								
Voltage / Frequency		3-Phase AC 200 V, 50 / 60 Hz								
		3-Phase AC 220 V, 60 Hz 3-Phase AC 400 V, 50 Hz								
Rated Current		MG-60Ha: AC 200 V, 50 Hz, 8.5 A / AC 200V, 60 Hz, 8.8 A								
		MG-60Hc: AC 200 V, 50 Hz, 30.3 A / AC 200 V, 60 Hz, 35.7 A								
Power		1 unit	2 units	3 units	4 units	5 units	6 units			
Consumption	50 Hz	2.5 kW	4.1 kW	5.7 kW	13.6 kW	15.2 kW	16.8 kW			
	60 Hz	2.7 kW	4.6 kW	6.5 kW	12.9 kW	14.8 kW	16.7 kW			
Motors		MG-60Ha: 1.5 kW x 2 / MG-60Hb: 1.5 kW x 1								
Heat Out	out		-,	(830 kcal)						
Machine Dimensions		1 unit	2 units	3 units	4 units	5 units	6 units			
		4,887(W) x	7,554(W) x	10,221(W) x	12,888(W) x	-,	-, -, -			
		1,232(D) x	1,232(D) x	1,232(D) x	1,232(D) x	1,232(D) x	1,232(D) x			
		1		1,690(H) mm	,		7			
		(192.5" x	(297.5" x	(402.5" x	(507.5" x	(612.5" x	(717.5" x			
				48.6" x 66.6")						
Machine Weight		1,500 kg	2,750 kg	4,000 kg	5,300 kg	6,550 kg	7,800 kg			
		(3,308 lbs.)	(6,064 lbs.)	(8,820 lbs.)	(11,687 lbs.)	(14,443 lbs.)	(17,199 lbs.)			

# The SB-15 is a 15-clamp perfect binder. 3 minute setup/changeover- simply input book size data.

Milling Blower Unit (DB-15W)

## **Nipping Section**



A superior nipping system exerts powerful nipping pressure to create strong, durable binds with sharp spine corners. Nipping pressure can be adjusted while running.

#### **Cover Position Checking System**



After the book block is assembled with the cover. cover registration on each book is checked during transport. If registration error is detected, the book is automatically rejected. (Optional Weight Checker is required.)

#### (OPTION)

Weight Checker (CH-15W)

#### **In-Feed Section**



Gathered signatures are transported from the Gatherer and inserted into the clamper from the bottom.

#### **Hand Feed Section**



When the SB-15 is used as an off-line binder, book blocks are fed into the clamper in this section.

#### **Milling Section**



The book block and clamper are pressed firmly by the pressing rollers. Milling height, rotation speed, and notching pitch can be adjusted through the control panel.

## **Cover and Book Registering Section**



A built-in matching mechanism precisely aligns the book and cover for accurate assembly.

(OPTION)

(OPTION)

(OPTION)

Pre-Melt Tank (PM-40)

Side Glue Supply Unit (TM-5)

**Book Size Input Caliper (SI-15)** 

#### **Scoring Section**

**Cover Feeder** 



The cover scoring wheel can create up to 4 score lines, and is provided as standard equipment.

The air suction cover feeder is

be loaded while running.

equipped with advanced double/miss

feed detection. The image checking

system uses a CCD camera to detect

incorrectly loaded covers. Covers can

## **Operator Console**



A large color LCD screen provides simple and easy operation. All necessary settings can be performed through this icon based screen. Any system errors are indicated on this screen for quick, easy resolution.



Three application rollers allow hotmelt glue to penetrate deeply into the book for stronger binds. The glue tank can be divided into two separate sections so that two different glues can be used for enhanced bind quality. Side gluing is provided as standard equipment.

Book Size	Portrait		Мах.	350 mm (13.77")	260 mm (10.23")	In-line (Hand Feeding)			
				330 mm (12.99")	250 mm (9.84")	In-line			
				400 mm (15.74")	280 mm (11.02")	Off-line			
			Min.	148 mm (5.83")	105 mm (4.14")				
			A6 to A4			When MG-60H is connected			
	Land Scape		Max.	330 mm (12.99")	320 mm (12.59")	Off-line			
			Min.	135 mm (5.32")	185 mm (7.29")				
				B6 t	When MG-60H is connected				
Book Thickness		2 to 50 mm (0.08" to 2.0")							
Cover Size Top-Bottom x Fore-edge)		Max. 400 x 660 mm (15.74" x 25.98")							
		Min. 135 x 230 mm (5.32" x 9.06")							
Cover Weight Range		81.2 to 290 gsm Normal Paper, 104.4 to 348 gsm Coated Paper							
Cover Pile Height		Max. 130 mm (5.1")							
Warm up T	70 min.								
Tank Temper	150 to 200 °C								
lilling Blade Maxir	5 mm (0.19") (Depends on the sheet weight)								
Production S	Max. 5,200 books/hr.								
Voltage / Frequency		3-Phase 200-230 V, 50 / 60 Hz							
3-Phase 380-415 V, 50 Hz									

SB-15 Major Specifications

#### OPTION For SB-15

#### ■ Book Size Input Caliper (SI-15)



All necessary setups can be automatically performed by reading the length of the actual book block and cover, instead of having to manually input the size data into the operation panel.

#### ■ Milling Blower Unit (DB-15/15W)



Vacuumed paper chips from the milling process are collected into a high capacity plastic bag for continuous operation.

© DB-15 / Single Tower DB-15W / Twin Tower

#### ■ Pre-Melt Tank (PM-40)



Adhesive is pre-melted in a separate, highcapacity tank and fed into the glue tank as needed.

#### ■ Side Glue Supply Unit (TM-5)



The side glue tank is automatically replenished when the level drops below a certain point.

#### ■ Weight Checker (CH-15W)

Heat Output



The weight checking system detects any books with no cover or a missing signature, and delivers the errored books into a reject tray.

26,860 kJ (6,430 kcal) x 1,700(D) x 1,130(H) mm (246.1" x 67.0" x 44.5")

Chip Extractor (TB-100)

(OPTION)

## The HT-101 is a fully automated three-knife trimmer, with a user-friendly color touch-screen control console.

#### **Operation Console**



The large color LCD screen provides for simple and easy operation. All necessary settings can be performed through the icon-based touchscreen. If the system has an error, the error type and location are indicated on the color LCD for quick resolution.

#### **Trim Section**



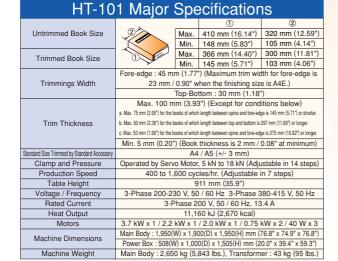


The height of each knife and the angle of the foreedge knife can be adjusted through the color LCD screen during operation. Trimmings are blown away from the knife by strong air blowers mounted on the knife holders.

### **In-Feed Section**



The in-feed section is equipped with a pressing unit that compresses the books to remove air for reduced bulk and accurate trimming.



#### **Conveyor Unit**

#### Stack Orientator (PP-100)



Bound books are transported into the stack orientator to accumulate a predetermined number of books for trimming in the HT-101.

#### **OPTION** For HT-101

#### ■ Chip Extractor (TB-100)



The three-side trimming waste is extracted by the chip extractor.

#### CABS5000 Options

#### (Gatherer MG-60H)

Book Thickness Detector : MG-TD
Image Checking System : CCD-MG
MG Extension Unit : MG-60HL
Book Block Sensor : MG-CH
Compressor (must be arranged locally when the HT-101 is not connected)

#### (Perfect Binder SB-15)

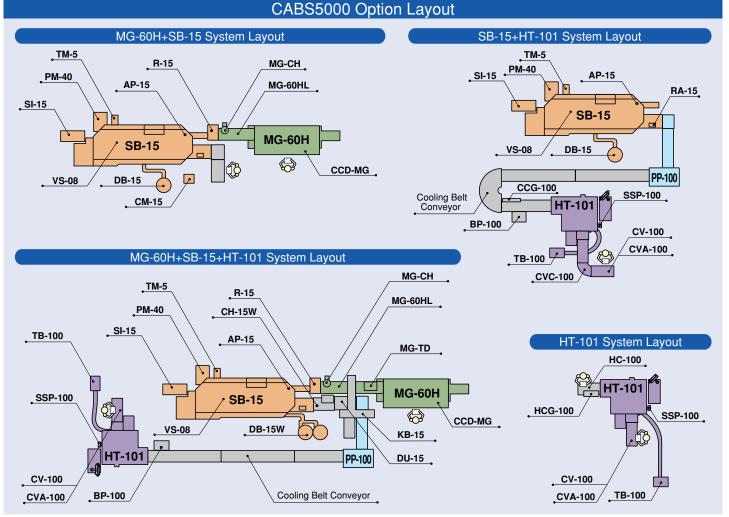
Connecting Belt Unit : R-15 In-Feeder Air Assist Blower : AP-15 Weight Checker : CH-15W Faulty Book Eject Unit : DU-15 Pre-Melt Tank : PM-40 Side Glue Supply Unit : TM-5 Book Size Input Caliper : SI-15 Cover Sheet Side-lay Adjustment Handset : RA-15 Milling Blower Unit (Single) : DB-15 Milling Blower Unit (Twin) : DB-15W Compressor (for offline-use) : CM-15 Smoke Extractor : VS-08

#### (Conveyor Unit)

Stack Orientator : PP-100
Cooling Belt Conveyor (Straight and Curved)
Bridge : KB-15
Power Box : BP-100
Curved Conveyor Guide : CCG-100

#### (Three-knife Trimmer HT-101)

Hand Feed Conveyor : HC-100
Hand Feed Guide : HCG-100
Curved Conveyor : CVC-100
Delivery Extension Conveyor : CVA-100
Delivery Roller Conveyor : CV-100
Chip Extractor : TB-100
Automatic Silicon Spraying System : SSP-100
Compressor (must be arranged locally)



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

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