

Horizon

 **iCE Series**

BINDING

iCE BINDER SB-09R Series

SB-09R / SB-09RF





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, and advanced automation to provide increased efficiency and productivity. In addition, connecting with an iCE LiNK workflow system provides an advanced and totally connected work environment.

ICE BINDER SB-09R SERIES

New design, external features, and 15-inch control panel allow for enhanced user-friendliness and efficiency.



BINDER MODEL DIFFERENCES

SB-09R: Roller-grip-style cover feeder with lower table.
SB-09RF: Rotary-grip-style cover feeder with upper table.

 ICE BINDER SB-09RF

BENEFITS

REDESIGNED APPEARANCE

The SB-09R features a redesigned exterior, larger windows, and new LED lighting for dramatically improved internal visibility.

EASY OPERATION & MAINTENANCE

The SB-09R performs automated changeovers by inputting size information into the 15-inch control panel. The optional bookblock/cover sheet size input interface allows for intuitive and simple job setups. New transparent covers can be removed and provide easy access to the inside for maintenance and cleaning.

HIGH PRODUCTIVITY

Maximum cycle speed is 4,000 cycles per hour. Multiple books can be stacked and cut together improving trimming productivity.

FLEXIBLE SYSTEM CONFIGURATION

The CABS system configuration achieves single pass book production, while roll-fed smart binding options allow for automatic changeovers of variable thickness book production.

ICE LINK CONNECTABLE

The system comes factory ready to connect to iCE LiNK for cloud-based machine monitoring, job tracking, automated workflow, and more!

OPTIONS.

WD-17III WEIGHT CHECKING UNIT

RU-17R REJECTOR

- The weight checking unit detects any books that are missing a cover or signature and the errored books are automatically rejected by the rejector.

SI-17 BOOK / COVER SHEET SIZE INPUT INTERFACE

- 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 touch panel.

TM-09R SIDE GLUE SUPPLIER

- This is an automatic side glue supply unit.

MU-09-EVA MELT TANK UNIT FOR EVA GLUE

MU-09-PUR MELT TANK UNIT FOR PUR GLUE

- Interchangeable melt tanks allow both EVA/PO hotmelt and PUR hotmelt to be used.

VSP-09R FUME EXTRACTOR PORT

- This is required when installing the VS-17 fume extractor to the SB-09R/RF system binder.

PRE-MELT TANK

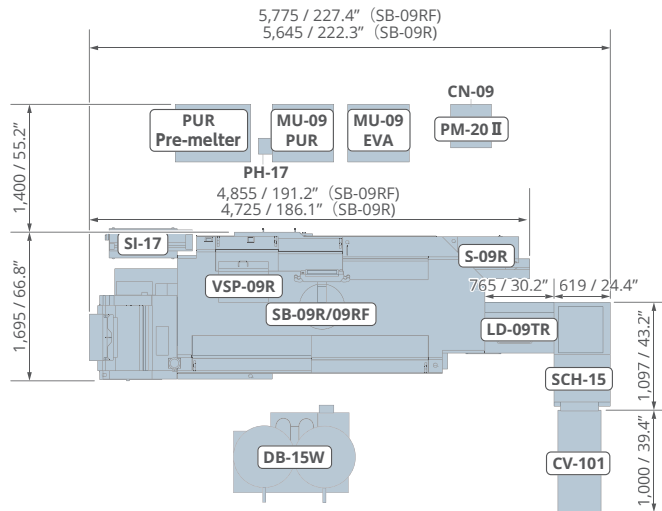
- Glue is pre-melted in a separate, high-capacity tank and fed into the glue tank as needed.
- Pre-melt tanks for EVA hotmelt (PM-20II) and for PUR hotmelt are available.

*Please contact your local dealer for detailed information.

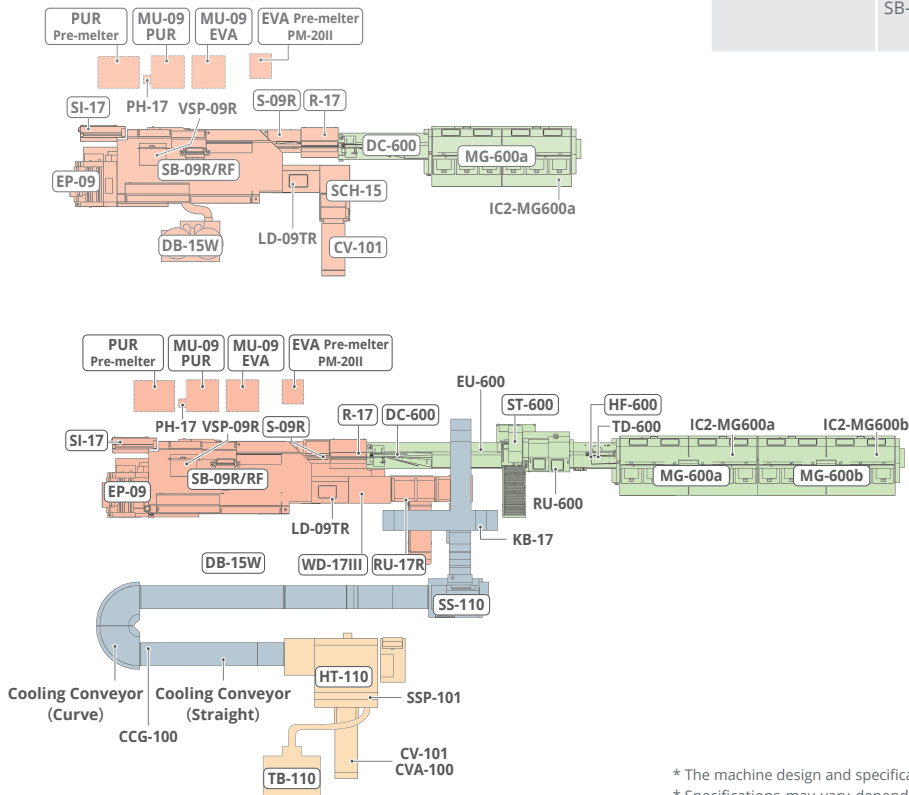
		NAME	MODEL	DESCRIPTION
		Connecting Belt Unit	R-17	This is a connecting unit between the MG-600 system gatherer and the SB-09R/09RF system binder.
		Automatic Feed Unit	S-09R	This is an in-feeder unit for collated book block set. This is required when the collator is connected.
Selection		Milling Blower Unit (Single)	DB-15	This is a single type milling waste collecting unit.
		Milling Blower Unit (Twin)	DB-15W	This is a twin type milling waste collecting unit.
		Pre-melter	PM-20II	This is a pre-melt automatic feeding tank for EVA (18 liters). Contact your local dealer about pre-melt tank for detailed information.
		Pre-melt Tank Nozzle	CN-09	This is a pre-melt tank nozzle set for SB-09R/RF system binder.
		Side Glue Supplier	TM-09R	This is an automatic side glue supply unit.
		Book/Cover Sheet Size Input Interface	SI-17	This measures the book block and cover sizes, and sends the data to the binder.
		Rejector	RU-17R	This rejects a faulty book detected on the WD-17II weight checking unit. This is required when the three-knife trimmer is connected.
		Weight Checking Unit	WD-17III	This checks weight of each book. The RU-17R rejector is required.
Selection	Set	Chute Delivery Conveyor	LD-09SR	This is a chute delivery conveyor for the AC-08/09 slope conveyor.
		Slope Conveyor	AC-08	This is a 1.0 m conveyor. The LD-09SR chute delivery conveyor is required.
		Slope Conveyor	AC-09	This is a 1.2 m conveyor. The LD-09SR chute delivery conveyor is required.
Selection	Set	Twisting Conveyor	LD-09TR	This delivers books to the WD-17III weight checking unit and the SS-110 stack stream. This is required when the SCH-15 delivery stacker and the HT-110/1000R three-knife trimmer are connected.
		Delivery Stacker	SCH-15	This is required as delivery unit when the HT-110/1000R three-knife trimmer is not used. The LD-09TR twisting conveyor is required when the SB-09R/RF system binder is connected.
		Delivery Roller Conveyor (1 m)	CV-101	This is a delivery roller conveyor for the SCH-15 delivery stacker.
		Fume Extractor Unit	VS-17	This is a fume extractor for the SB-09R/09RF system binder
		Fume Extractor Port	VSP-09R	Exhaust vent with filter pocket.
		Fore-edge Gluing Unit	EP-09	This is a gluing unit for pasting cover sheets and additional sheets.
		Melt Tank Unit for EVA Glue	MU-09-EVA	This applies EVA glue to book blocks.
		Melt Tank Unit for PUR Glue	MU-09-PUR	This applies PUR glue to book blocks.
		Pre-heating Power Unit	PH-17	This is used to heat up the MU-09EVA melt tank for EVA glue or the MU-09PUR melt tank for PUR glue for short-make-ready of glue tank change.
		Book Block Feeder	CBF-SB	This automatically feeds both loose sheet book block and pre-glued book block.
		Jogger Unit	J-CBF	This jogs the transported book blocks.
Selection		Conveyor	CBF-CV2	This is a 2 m conveyor for the CBF-SB book block feeder. This allows manual feeding of book blocks.
		Conveyor	CBF-CV3	This is a 3 m conveyor for the CBF-SB book block feeder. This allows manual feeding of book blocks.
		Bridge	KB-CBF	This is a bridge over buffer conveyor.
		Additional Sheet Feeder	ASF-SB-F	Additional sheets can be inserted to the front of book blocks. Up to three ASF-SB-F/R additional sheet feeder can be connected.
		Additional Sheet Feeder	ASF-SB-R	Additional sheets can be inserted to the front of book blocks. Up to three ASF-SB-F/R additional sheet feeder can be connected.
		Pre-Check Kit for Cover Sheet Change	CCV-09R	The status of the cover sheet change can be indicated by the pole lamp and a buzzer.
		Milling Waste Duct Set (Single)	MD-17S	Milling waste duct set for DB-15 that discharge milling chips from the top. MDF-09R is required.
		Milling Duct Flange	MDF-09R	Duct opening for discharging milling chip.
		Wire Brush	WBC-470	Solider milling brush to scrape off milling chips on the spine.

SPECIFICATIONS.

Machine Dimensions. (Unit : mm / inch)



CONFIGURATION 1 (Top View)



* 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.

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SB-09R / 09RF		
Binding Type	Binding with milling, Binding without milling, Pad binding, and Partial gluing	
Glue Type	EVA glue PO glue (MU-09-EVA is required) PUR glue (MU-09-PUR is required)	
Number of Carriage Clamps	9, Clamp width is adjusted automatically	
Book Block Size	Spine Length x Fore-edge Length	
	In-line Portrait	Max. 330 x 250 mm or 12.9" x 9.8" Min. 148 x 105 mm or 5.9" x 4.2"
	Off-line Portrait	Max. 400 x 280 mm or 15.7" x 11.0" Min. 148 x 105 mm or 5.9" x 4.2"
		Land Scape
Book Thickness	1 to 45 mm or 0.04" to 1.77" (depending on conditions)	
Cover Size	Length x Width Max. 400 x 660 mm or 15.7" x 25.9" Min. 135 x 220 mm or 5.4" x 8.7"	
Cover Weight Range	Normal Paper : 82 to 302 gsm Coated Paper : 105 to 348 gsm SB-09R : Flap covers cannot be fed. SB-09RF : Flap covers can be fed.	
Cover Stack Height	Max. 130 mm or 5.1"	
Production Speed	Max. 4,000 books per hour	
Voltage/Frequency	3-Phase 200 V, 50 or 60 Hz 3-Phase 208 V, 50 or 60 Hz 3-Phase 400 V, 50 or 60 Hz	
Machine Dimensions	SB-09R	System (with S-09R): W4,725 x D1,695 x H2,105 mm or 186.1" x 66.8" x 82.9"
	SB-09RF	System (with S-09R): W4,855 x D1,695 x H2,105 mm or 191.2" x 66.8" x 82.9"