

HT-110

Three-knife Trimmer

1. Highly accurate set-ups are performed with easy and simple operation.
2. Trimming cycle can be adjusted in 13 stages from 400 to 1,600 cycles/hour. By accumulating 4 books at once at the Stream stack orientator, productivity 6,000 books/hour can be achieved.
3. Rigid framing and durable structure provides the utmost in trimming accuracy.

Operation Console

The trimmer is simple and easy to operate, with all necessary settings performed through the large, icon-based color touchscreen. If the system has an error, the error type and location are indicated for quick resolution.



Option

Chip Extractor (TB-100)

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



In-Feed section

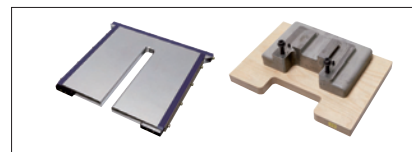
A pressing unit in the in-feed section compresses the books to remove air for reduced bulk and accurate trimming.



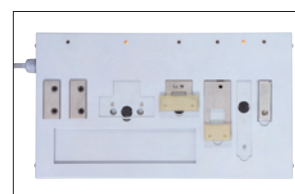
Option

Plate for trimming for each size

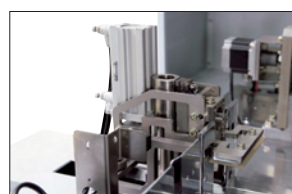
Presser and Trimming plates for each size are available as options.



Chuck plate recognition device



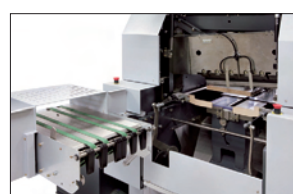
LED lamps light up to indicate which chuck plate is suitable for each book size. Replacement of the chuck plate is fast and easy.



Trimming section



The height of each knife and the angle of the fore-edge knife can be adjusted through the color touch screen during operation. Trimmings are blown away from the knife by strong air nozzles mounted on the knife holders.



Advanced Features

Advanced Features

PUR

Strong, Environmentally Friendly PUR Solution

Polyurethane Reactive, also called PUR, is a polyurethane adhesive attracting attention for binding strength and eco-friendliness.

Strong and Lay-Flat Binding

As the printing industry diversifies, there is growing demand for binding with color sheets. EVA hotmelt glue has difficulty binding coated stock firmly, and does not currently enable acceptable lay-flat binding. However, PUR hotmelt glue can provide adequate binding strength and lay-flat quality for both offset and digital prints.

PUR hotmelt glue provides the best page spread compared to traditional EVA hotmelt glue. High binding strength allows for the application of a small amount of glue, allowing the pages to lay flat when the book is opened.



EVA



PUR

Durable against Temperature

PUR hotmelt glue retains durability and flexibility in both high and low temperatures. The temperature resistance for PUR hotmelt glue ranges from -20 to 120 degrees Celsius versus 0 to 60 degrees Celsius for EVA hotmelt glue. This allows PUR bound books to be handled in almost any climate or location.

Ecology

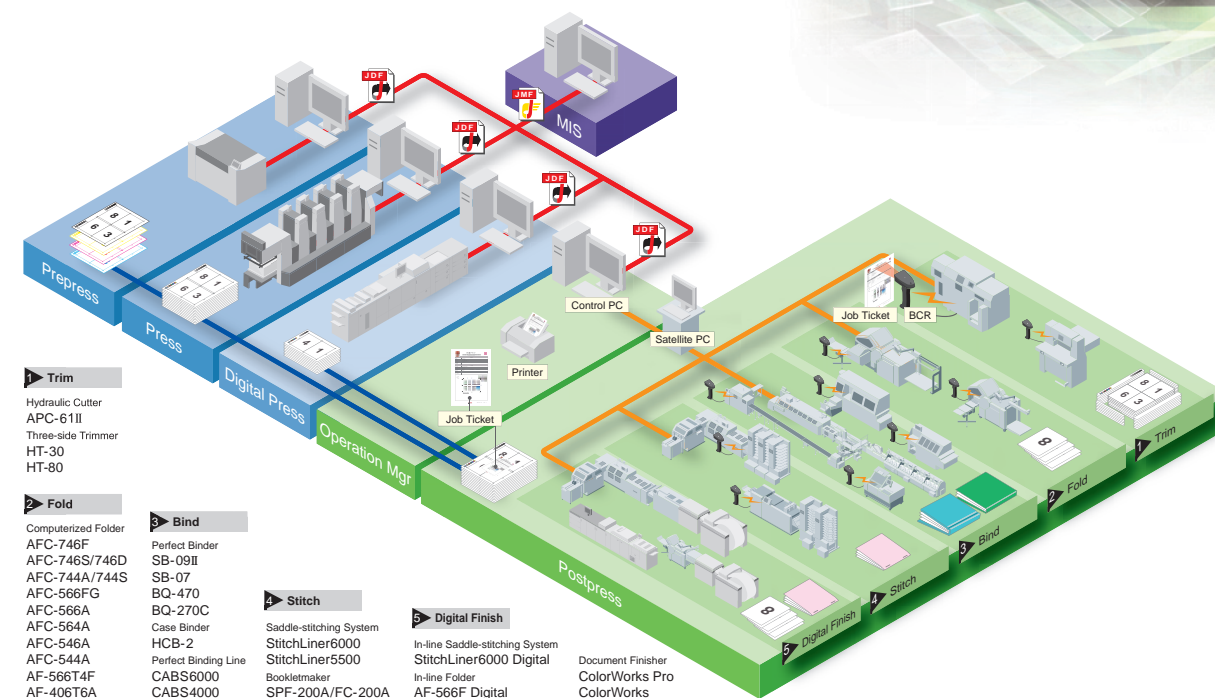
PUR adhesive is environmentally friendly, allowing PUR-bound books to be recycled. PUR also has a lower melting point (120 degrees Celsius) than EVA for operational energy savings.

pXnet system

Automating the bindery with JDF workflow

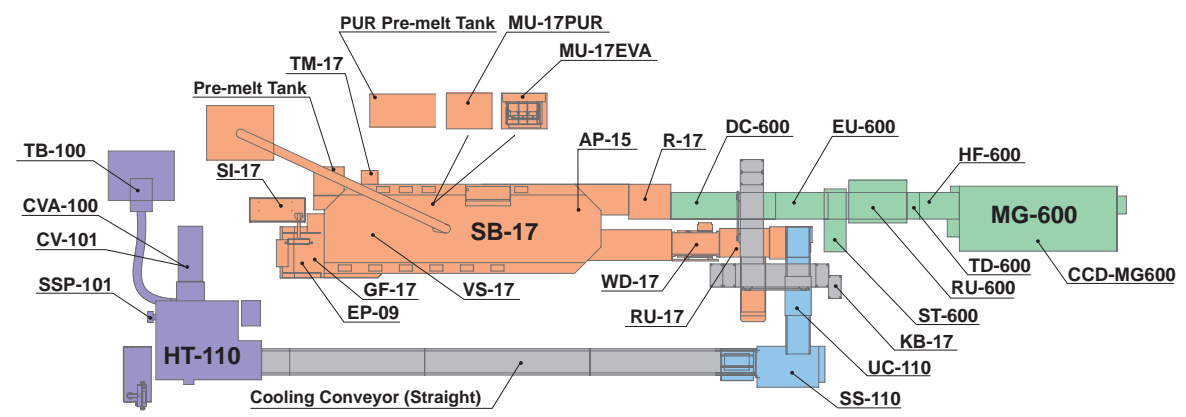


The pXnet Bindery Control System can consume JDF data for fully automated set-up, or be used as a central control point to schedule work, send job data, and collect production statistics from networked machines in real-time. pXnet brings efficiency and value in high-mix / low-volume production environments where frequent job changeovers are needed.

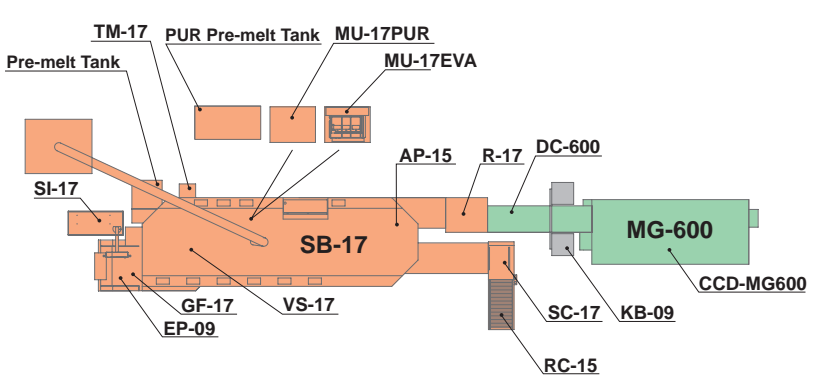


CABS6000 floor plans

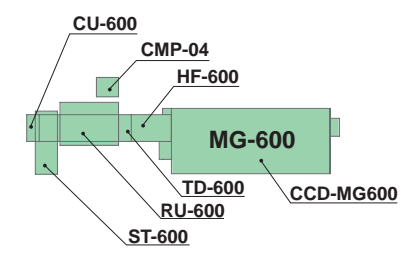
MG-600+SB-17+HT-110 Connected



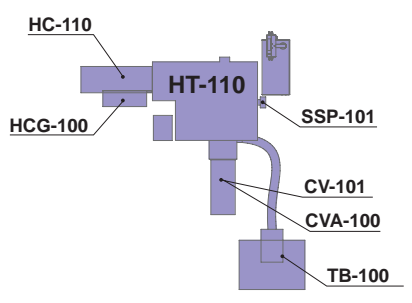
MG-600+SB-17 Connected



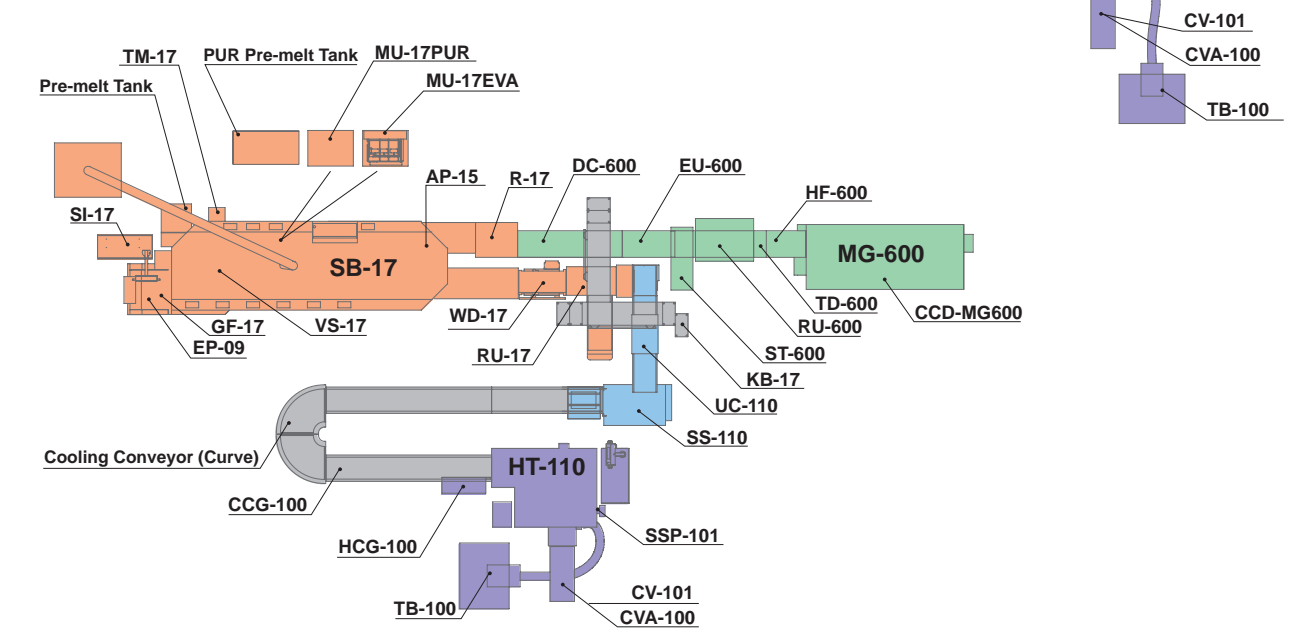
MG-600 Stand alone



HT-110 Stand alone



MG-600+SB-17+HT-110 Connected



CABS Options

Gathering system MG-600 Option		
Model name	Description	Remarks
EU-600	Extension unit	EU-600 is needed between MG-600 and SB-17 when the weight checker is installed
CCD-MG600	Image checking system	CCD cameras check the image of each signature to prevent incorrect signature or sheet feeding
TD-600	Thickness detector	TD-600 detects the thickness of gathered signatures
ST-600	In-line stacker	Signature gathering is possible on MG-600 as stand alone
RU-600	Reject Unit	Incorrect signatures are rejected for non-stop operation
HF-600	Hand feed section	HF-600 allows an operator to hand feed additional signatures or sheets
DC-600	Delivery connection unit	DC-600 is Delivery unit between MG-600 and SB-17
CU-600	Connecting Unit	CU-600 is needed when using MG-600 with RU-600

17 clamber perfect-binder SB-17 Option		
Model name	Description	Remarks
R-17	Connecting unit	Connecting unit between MG-600 and SB-17
AP-15	Air pump for insert section	An air pump for book block insertion section SB-17
—	Pre-melt tank	Pre-melt automatic feeding tank for both EVA and PUR
TM-17	Side glue supply unit	Automatic side glue supply unit
SI-17	Book size input caliper	SI-17 measures the book block and cover sizes, and sends the data to SB-17
RU-17	Reject unit	RU-17 rejects a faulty book detected on SB-17
WD-17	Weight checker	WD-17 checks weight of each book
TC-17	By-pass conveyor	When not using WD-17, TC-17 is needed for by-passing.
SC-17	Stack conveyor	When not using HT-110, SC-17 is needed as delivery unit
VS-17	Smoke extractor	Smoke extractor for SB-17
MU-17EVA	EVA Melt tank Unit (Drum rollers application)	MU-17 EVA is used for EVA glue application
MU-17PUR	PUR Melt tank unit (Drum rollers application)	MU-17PUR is used for PUR glue application
NU-17PUR	PUR Melt tank unit (Nozzle application style)	NU-17PUR is used for Nozzle style PUR glue application
GF-17	Gauze feeding unit	GF-17 is the unit which cuts the gauze to the appropriate length
PH-17	Pre-tank-heater	PH-17 is used to heat up the melt tank unit for short-make-ready of glue tank change

Connecting delivery section		
Model name	Description	Remarks
SS-110	Stream stack orientator	Bound books are transported into the stream stack orientator (SS-110) to accumulate a predetermined number of books (up to 100 mm) for trimming in HT-110
KB-09	Bridge	Bridge over delivery section
KB-17	Bridge	Bridge over delivery section. This is needed when MG-600, SB-17, and HT-110 are connected
—	Cooling conveyor	Various configurations are arranged depending on space requirements
CCG-100	Guide for curve conveyor	The guide for adjusting position of delivered book on the cooling conveyor

Three-knife trimmer HT-110 Option		
Model name	Description	Remarks
HC-110	Hand feed conveyor	HC-110 is needed to feed books when HT-110 is used as stand alone. HC-110 is 1.3 m length conveyor and its speed can be adjusted in three phases
HCG-100	Hand feed guide set	Guide set for delivered books, installed at the entrance section of HT-110 on the cooling conveyor
—	Trimming plate for each size	Trimming plate for each size
CV-101	Delivery Roller conveyor	CV-101 is 1 m length of Roller conveyor for delivery section HT-110
CVA-100	Delivery Extension conveyor	CVA-100 extension conveyor which can be extended from 1.5 m to 3.8 m
SSP-101	Automatic Silicon Spraying system	SSP-101 sprays Silicon to Top-Bottom knives to inhibit glue from sticking to the knives while trimming
TB-100	Chip Extractor	TB-100 uses air suction to remove and accumulate chips

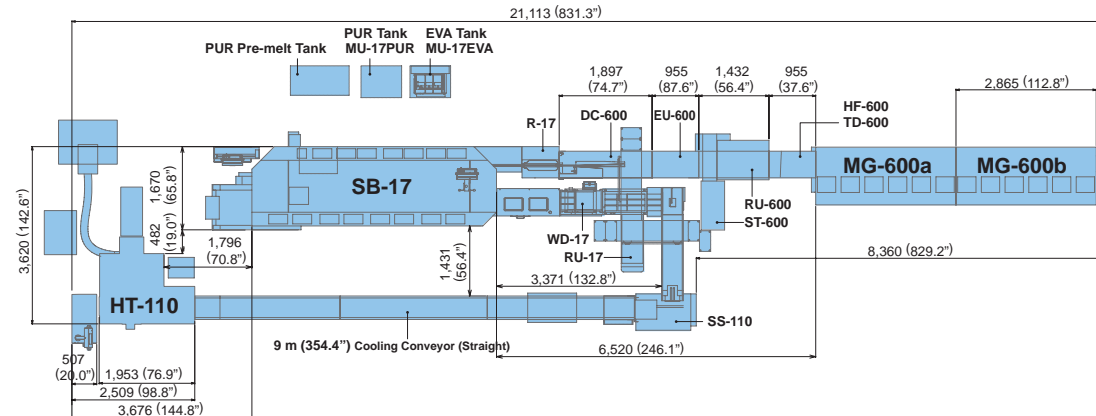
- Set : Need to have both unit as a set.
 - Selection : Select one of the option.



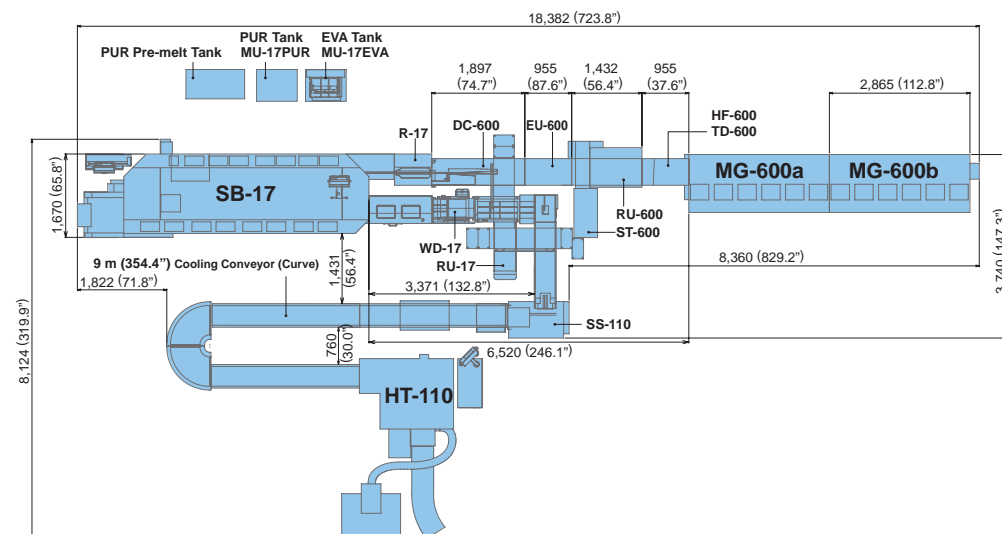
*Contact your local dealer for more information

Machine dimensions and configuration examples [Unit : mm (inch)]

Example 1



Example 2



Specifications

MG-600 Specifications	
Sheet Feeding System	Air suction bottom feed
Module Configuration	MG-600a / MG-600b / MG-600c / MG-600c / MG-600b / MG-600b
Number of Hopper	6 hoppers /12 hoppers /18 hoppers /24 hoppers /30 hoppers / 36 hoppers
Sheet Size	Max. W 385 (15.15") x H 275 (10.8") mm Min. W 148 (5.83") x H 105 (4.14") mm
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")
Sheet Weight Range	Normal Signature sheet
Production Speed	Max. 6,000 sets/hr.
Power Consumption	MG-600a : 50 / 60 Hz : 2.9 kW / MG-600b : 50/60 Hz: 1.8 kW MG-600c : 60 Hz: 2.7 kW
Machine Dimensions	MG-600a : 3,200(W) x 1,180(D) x 1,690(H) mm (126.0" x 46.5" x 66.6") MG-600bc : 2,860(W) x 1,180(D) x 1,690(H) mm (112.6" x 46.5" x 66.6")

HT-110 Specifications	
Untrimmed Book Size (Top-Bottom x Fore-edge)	Max. 410 x 320 mm (16.14" x 12.59") Min. 148 x 105 mm (5.83" x 4.14")
Trimmed Book Size	Min. 145 x 103 mm (5.71" x 4.05")
Trimming Width	Fore-edge : 45 mm (1.77") (Maximum trim width for fore-edge is 23 mm / 0.90" when the finishing size is A4E-Landscape.) Top-Bottom : 30 mm (1.18")
Trim Thickness	2 to 100 mm Limitation a. Max. 50 mm (1.96") for books which measure 145 mm (5.71") or shorter between spine and fore-edge b. Limitation for books which have a finished length of 325 mm (12.80") or longer between top and bottom For example Max. 55 mm (2.16") for books which measure 400 mm (15.74") between top and bottom before trimming Max. 80 mm (3.14") for books which have a length of 364 mm (14.33") between top and bottom before trimming
Clamp and Pressure	4 kN to 12 kN (Adjustable in 9 steps)
Production Speed	400 to 1,600 cycles Adjustable in 13 steps
Power Consumption	200 V 50 / 60 Hz: 3.9 kW Compressor not included
Machine Dimensions	Main Body : 1,950(W) x 2,150(D) x 1,950(H) mm (76.8" x 84.7" x 76.8") Power Box : 508(W) x 1,000(D) x 1,450(H) mm (20.0" x 39.4" x 57.1")

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

SB-17 Specifications		
Book Size	Land Scope	Off-line Max. W 400 (15.74") x H 280 (11.02") mm Min. W 148 (5.83") x H 105 (4.14") mm (A6) In-line Max. W 385 (15.15") x H 275 (10.82") mm Min. W 148 (5.83") x H 105 (4.14") mm (A6)
	Portrait	Off-line Max. W 330 (12.99") x H 320 (12.59") mm Min. W 135 (5.32") x H 185 (7.29") mm (B6) In-line Max. W 250 (9.84") x H 320 (12.59") mm Min. W 135 (5.32") x H 185 (7.29") mm (B6)
Book Thickness	2 to 50 mm (0.08" to 2")	
Cover Size (Top-Bottom x Fore Edge)	Max. 400 x 660 mm (15.74" x 25.98") Min. 135 x 220 mm (5.32" x 8.67")	
Cover Weight Range	81.2 to 303 gsm Normal Paper 104.4 to 348 gsm Coated Paper	
Cover Pile Height	Max. 130 mm	
Production Speed	Max. 6,000 books / hr.	
Machine Dimensions	7,100 (W) x 1,700 (D) x 1,500 (H) mm (279.6" x 67.0" x 59.1")	