

# Horizon

STITCHING

## SPF-200 series

In-line Booklet-making System



# IMPROVE YOUR BOOKLETMAKING.

The SPF-200 series bookletmaking system features high productivity, fully automated changeover and user-friendly operation.

## BENEFIT

### ADVANCED AUTOMATION

All necessary settings for a wide variety of booklet formats, ranging from CD to A4 landscape (A4 landscape is available only with SPF-200L) can be performed automatically through the touchscreen display. Even the fold roller gap adjustment is automated. The quick fully-automatic changeover is suited for efficient small lot production and leads to a reduction of test sheets.

### COLOR TOUCHSCREEN FOR EASY OPERATION

The 10.4 inch large color touchscreen features an intuitive, icon-based display for easy operation and quick troubleshooting.

### SUPPORTING BOTH DIGITAL AND OFFSET PRINT

The SPF-200 series booklet-making system provides flexible system configurations. The VAC-1000 can be connected for conventional offset print production and the HOF-400 offline feeder can be connected to handle digital output.

### COST SAVING

The SPF-200 series booklet-making system processes the pre-cut 4-page sheets instead of folded signatures to eliminate the folding process.

### LABOR SAVING

A reject function allows non-stop operation. Errored booklets are rejected into the built-in reject tray so only good booklets are delivered to the conveyor for non-stop operation and accurate bookletmaking.

Maximum production speed is 4,500 books per hour with A5 booklets.

### QUALITY CONTROL

The wire feeding sensor and jog sensor are equipped to maximize productivity and efficiency. Optional mis-stitch detector and thickness detector are available for even higher quality control.

### FLEXIBLE CONFIGURATIONS

A wide range of optional units such as a hole punch unit, paper insertion knife unit and preset kicker are available to meet varying customer needs.

### MANAGE YOUR BINDERY WITH PXNET

The system can be further enhanced with Horizon's pXnet bindery control system which integrates JDF workflow from upstream devices.

### A4 LANDSCAPE BOOKLET PRODUCTION

The SPF-200L booklet making system provides a wide variety of booklet formats including A4 landscape. This expanded capability provides a wider range of formats, to support the demanding market needs.

## TWO TYPES OF SPF-200 SERIES BOOKLETMAKING SYSTEM

### SPF-200A

The SPF-200A can produce a wide variety of booklets from pocket booklets to A4 booklets.

Max. finished booklet size: 356 x 250 mm or 14" x 9.84"



### SPF-200L

#### A4 LANDSCAPE BOOKLET PRODUCTION

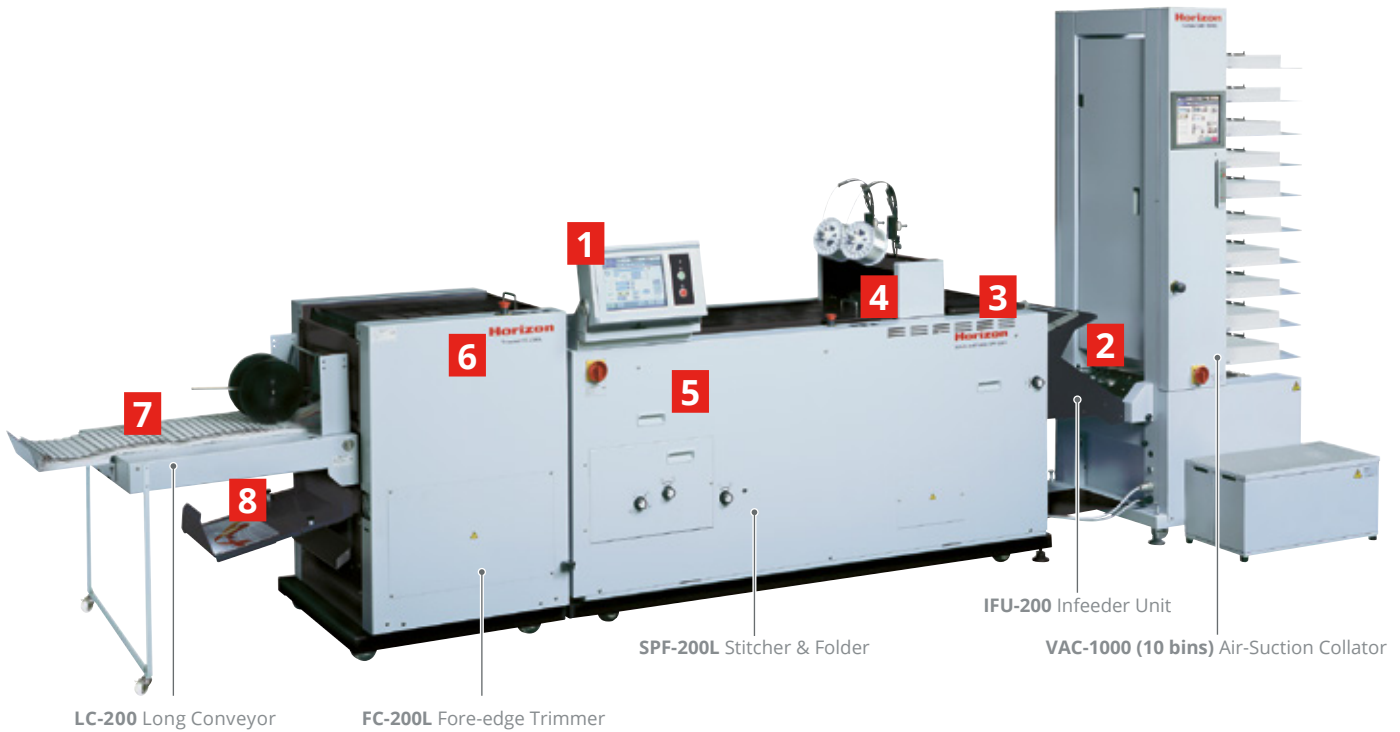
The SPF-200L can provide up to A4 landscape booklets from pocket booklets adding more expanded application flexibility.

Max. finished booklet size: 356 x 305 mm or 14" x 12"



# DETAILS FOR EACH DEVICE.

From start to finish.



## 1 COLOR TOUCHSCREEN



10.4 inch color touchscreen is intuitive and icon-based for user-friendly operation. The collating system and fore-edge trimming can be controlled from the control panel. The operator can store 200 jobs and name them alpha-numerically, for quick easy search and retrieval. With just one touch, the finishing format can be selected. The fine adjustments can be performed on-the-fly while running for high quality finishing.

## 2 HAND MARRYING: IFU-200 Option



The IFU-200 allows hand feeding of previously collated sets, heavy cover material or difficult stocks in three modes.

- Hand marrying mode 1: Insert one booklet.
- Hand marrying mode 2 : Merge a hand fed set on top of a set from the collator.
- Hand marrying mode 3 : Merge a set from the collator on top of a hand fed set.

## 3 JOGGING



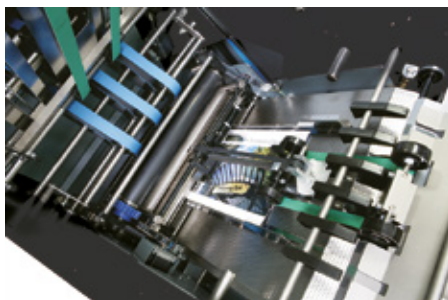
Jog count and stroke can be set to handle a wide variety of sheets.

## 4 STITCHING



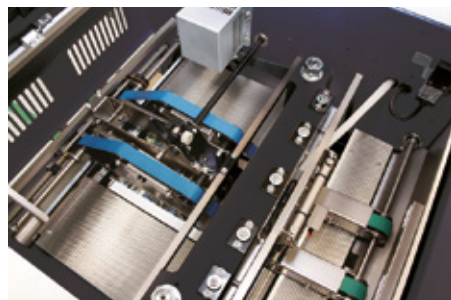
The wire feeding sensor alerts when the wire spool is nearly empty or jamming, and stops the system to eliminate non-stitched booklets. Up to 48 sheets of normal paper (64 gsm / 50lb. offset) can be stitched or up to 24 sheets of normal paper (64 gsm / 50lb. offset) can be stitched and folded. The stitching position and distance are automatically set up for the input size.

## 5 FOLDING



Folding roller and press roller gaps are automatically adjusted according to the booklet thickness. The jog sensor detects jog faults and rejects any errored booklets to the reject tray. Sheets are firmly registered with tail edge and top-bottom guides to provide accurate folds.

## 6 FORE-EDGE TRIMMING



The servo-motor is employed for knife driving to provide high speed and sharp fore-edge trimming. The top-bottom transport belt insures smooth booklet transportation and delivery. Trimmings are blown down into the external trim box by air so that no chips are left in the trimming area. Durable casting structure maintains the quality trimming.

## 7 CONVEYOR

Either the SC-200 Short Conveyor or the LC-200 Long Conveyor is available. Conveyor belt running time and batch counter can be controlled from the touchscreen. Booklets on the conveyor can be easily delivered by pressing the eject button.

### SC-200 SHORT CONVEYOR



- Finished booklets are neatly delivered to the exit conveyor.

### LC-200 LONG CONVEYOR



- The LC-200 is 54 cm / 21.2" longer than the SC-200 Short Conveyor. A large number of booklets can be neatly delivered.

## 8 FAULTY SET REJECTION



- Errored sets are rejected to the reject tray so that only correct booklets are delivered to the conveyor.

# OPTIONS.

## Add-on systems.

### | HOF-400 HIGH SPEED OFF-LINE FEEDER

- The HOF-400 can feed at a speed of 25,000 sheets per hour (A3 / 11" x 17") and 35,000 sheets per hour (A4 SEF/8.5" x 11"). This high speed feeding is capable of handling the output of multiple printers.
- Feature rich newly designed 7" color touch screen display for easy and intuitive operation.
- The HOF-400 is compatible with a wide variety of system configurations such as sheet feeding, cover feeding, accumulating, bleed trimming and center creasing depending on your needs.

- The HOF-400 is equipped with a high quality feed detection system for reliable processing. If a mis-feeding occurs in the HOF-400, the system stops before stitching.

**Ultrasonic Sensor:** Miss-feed, double-feed or jam detection  
**Mark sensor:** Page order detection (top and last sheet)



### | HP-200A HOLE PUNCH UNIT

- The HP-200A can perform efficient hole-punching bookletmaking in-line with the SPF-200A.
- Necessary settings and operation can be performed automatically by inputting the sheet size in the color touchscreen on the SPF-200A. Changeover for 2 holes and 4 holes is easy for user-friendly operation.
- The top-bottom transport belt insures stable booklet transportation. Blower air at fore-edge jog section is equipped as a standard for more accurate and stable production.

### | ST-40 BYPASS STACKER

- Connected between the collating and bookletmaking systems, the ST-40 serves as a high-capacity offset or straight stacking device.
- Errored sets are delivered to the built-in reject tray for non-stop operation.
- A continuously cycling tail jog keeps all sheets well positioned for superior stack quality.



## TBC-200L TOP AND BOTTOM TRIMMER

- TBC-200L can be connected with the SPF-200/FC-200 series bookletmaking system. A stand alone model is also available to connect to your existing bookletmaker.
- Up to 305 mm / 12" spine-to-face can be finished for A4 landscape booklet production.
- Set-up and operation can be controlled from the SPF-200 series touchscreen. An individual touch screen is equipped on the stand alone model.

Easy access to the knife section for setup and maintenance. Operator safety is ensured with the interlocked cover.

Booklets are firmly transported and jogged with a uniquely designed system that ensures accurate trim quality.

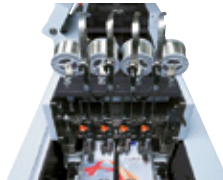
The whole transport section can be opened for easy booklet access and handling.

Trim from face and top-bottom can be gathered at the same place for space saving and efficient trim removal.



## FST-200 FOUR STITCHING UNIT

- Additional stitcher heads can be mounted for up to 4 stitches per booklet. Optional stitcher heads (#27 – thickness 0.45 mm) are available.



## PK-30 PRESET KICKER

- According to a preset number input on the touchscreen, one booklet is skewed to easily identify and separate the end of a series.



## PART NO. 9964401 LOOP STITCH KIT

- An optional loop stitch kit can be fitted to the standard stitcher heads to meet a variety of customer applications. Loop stitch kit is required for each stitcher head.



## TB-200 CHIP EXTRACTOR

- Powerfully blows out cutting waste from the fore-edge trimmer.



## SSK-200A/SSK-200L SIDE/CORNER STITCH UNIT

- The SSK-200A/SSK-200L enables the SPF-200A/SPF-200L to perform Side/Corner stitching. Side/Corner stitched set can be delivered to the same delivery conveyor used for booklets without any change.

## PN-200 PAPER INSERTION KNIFE UNIT

- The PN-200 inserts a single sheet into the center spread of a booklet. For example, an A4 size single sheet can be inserted into the A3 size booklet.

## TD-200 BOOKLET THICKNESS DETECTOR

- The TD-200 checks the thickness of each booklet. An errored book is rejected to the reject tray for non-stop operation.

## SDS-200 MIS-STITCH DETECTOR

- The SDS-200 checks the stitch on each booklet for higher quality control. A mis-stitched booklet is rejected to the reject tray for non-stop operation.

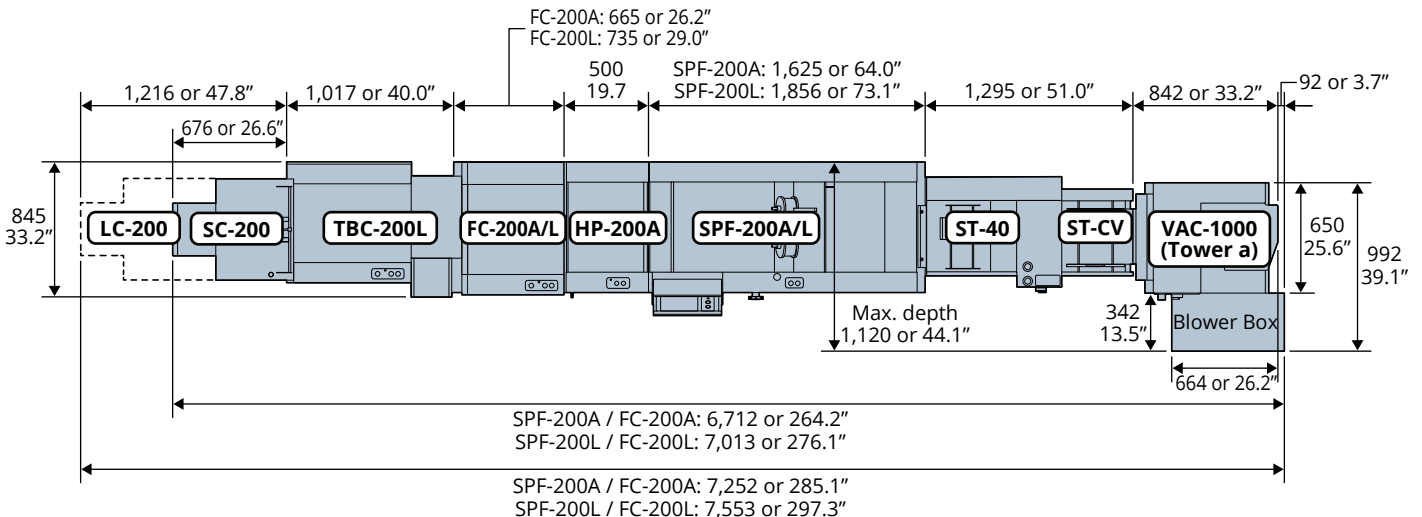
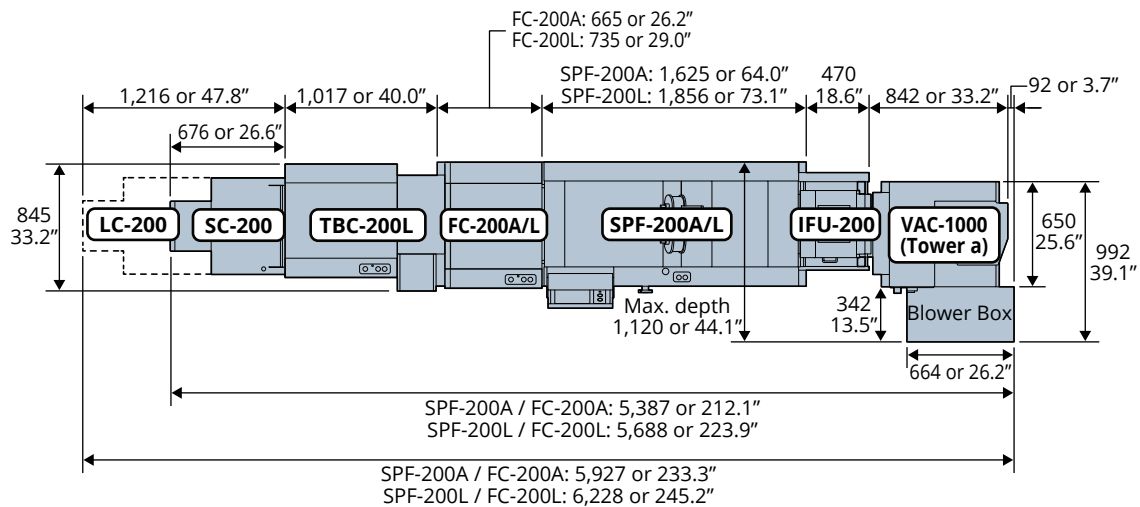
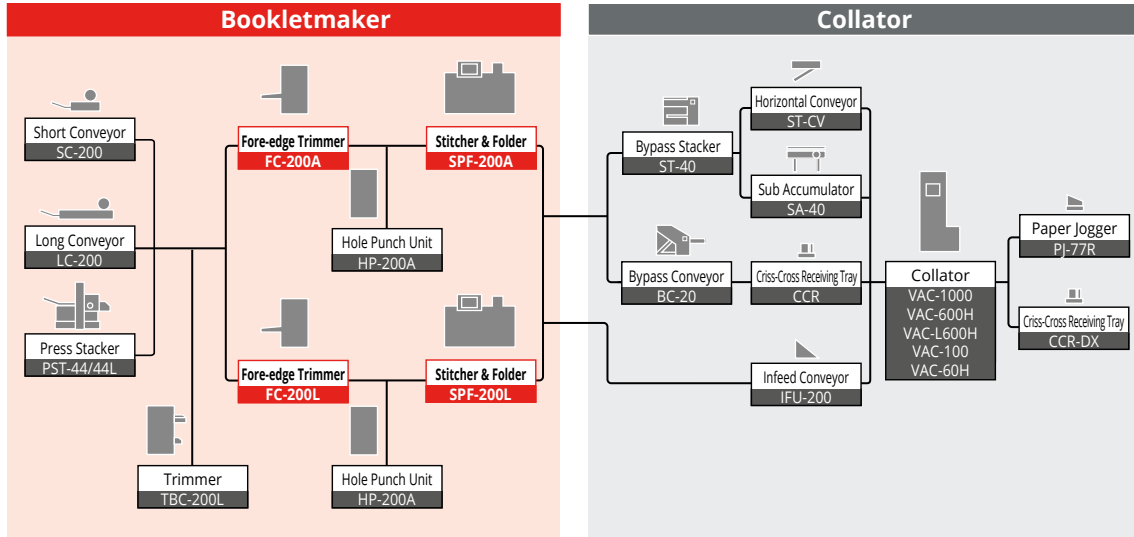
# SPECIFICATIONS.

## Available Combination of Models and Dimensions. (Unit: mm or inch)

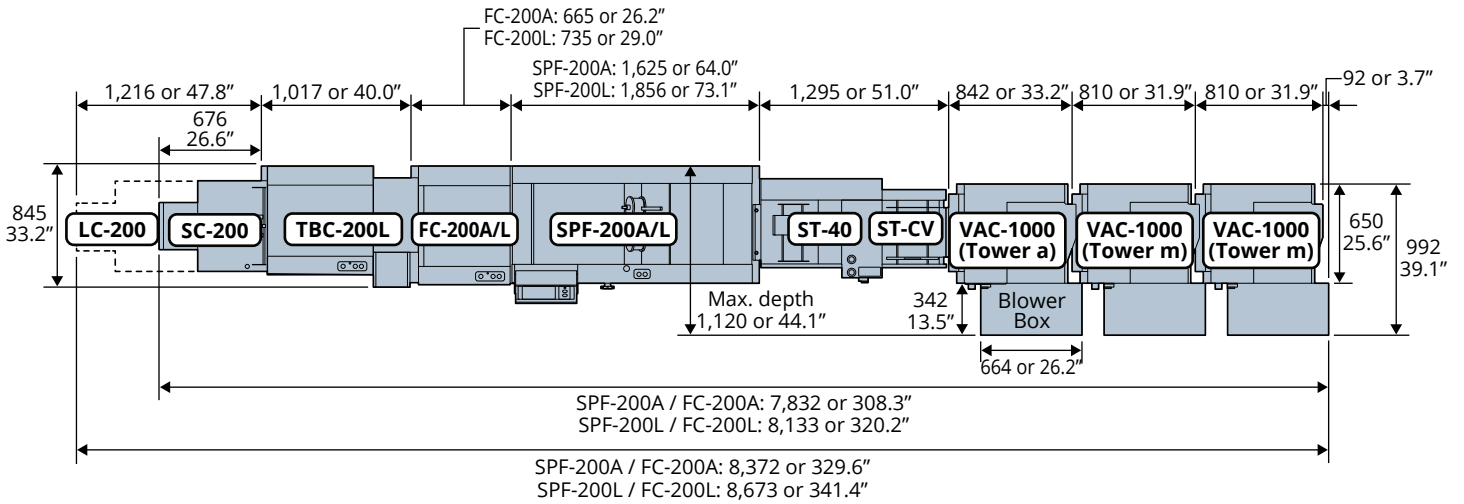
\*The available range of sheet size and sheet weight can be limited depending on the connected models.

\*The production speed is affected by the combination of the models.

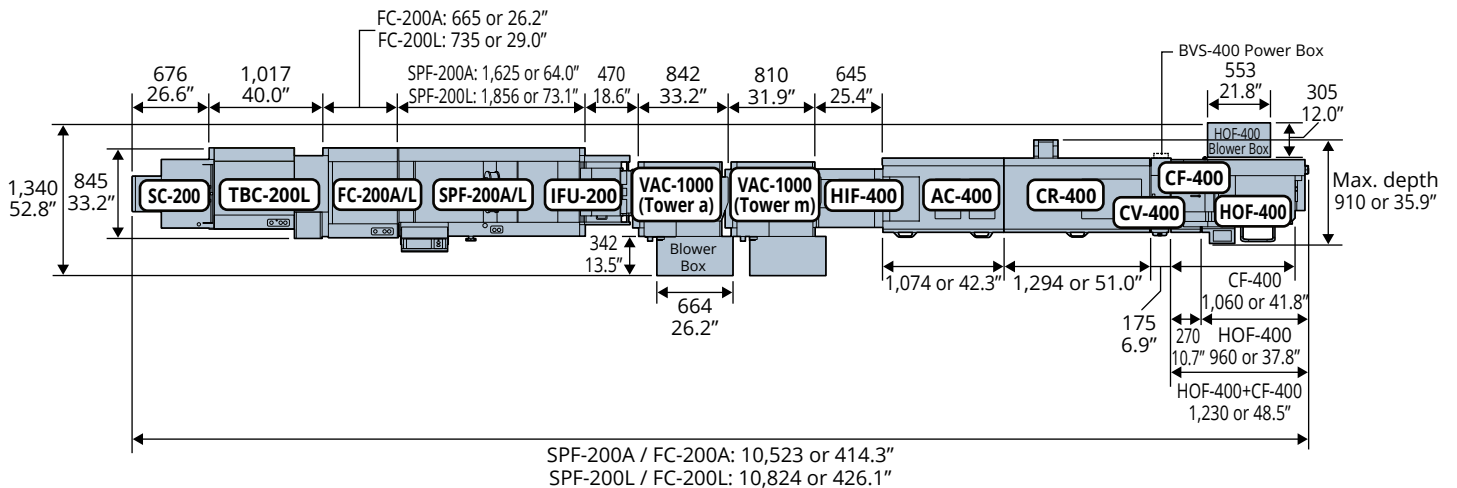
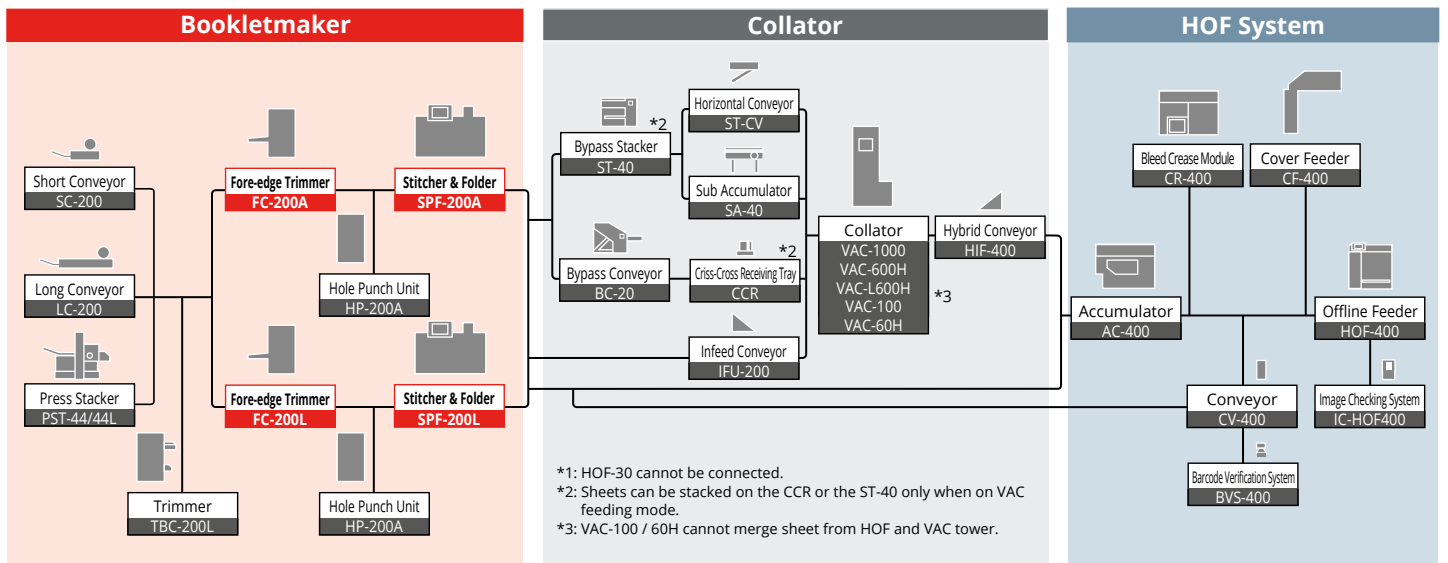
### Combination of Models for Offset Print





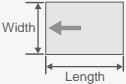
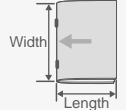


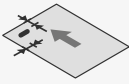
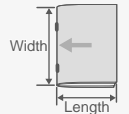
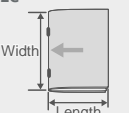
## Combination of Models for Digital Print



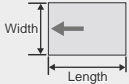
# SPECIFICATIONS.

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

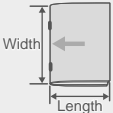
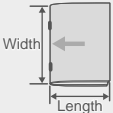
MODEL	SPF-200A	SPF-200L
<b>Functions</b>	Saddle Stitch, Top Stitch and Fold, Fold only (Option SSK-200A: Top/Side Stitch, Pass Through, Corner Stitch [Front/Rear], Corner Stitch and Fold)	
<b>Sheet Size</b>   <b>The range of sheet sizes available can be limited when the sheets are fed from the connected machine.</b>	Saddle Stitch, Fold only, Pass Through	
	<b>Width x Length</b> Max. 356 x 508 mm or 14.000" x 20.000" Min. 120 x 180 mm or 4.725" x 7.090"	<b>Width x Length</b> Max. 356 x 610 mm or 14.000" x 24.000" Min. 120 x 180 mm or 4.725" x 7.090"
	Top/Side Stitch	
	<b>Width x Length</b> Max. 356 x 432 mm or 14.000" x 17.000" Min. 180 x 138 mm or 7.090" x 5.435"	
	Top Stitch and Fold	
	<b>Width x Length</b> Max. 356 x 432 mm or 14.000" x 17.000" Min. 180 x 180 mm or 7.090" x 7.090"	
Corner Stitch, Corner Stitch and Fold		
<b>Width x Length</b> Max. 326 x 364 mm or 12.820" x 14.330" Min. 210 x 210 mm or 8.270" x 8.270"		
<b>Sheet Weight Range</b>	Normal Paper: 64 to 157 gsm Art Coated Paper: 84.9 to 157 gsm	
<b>Booklet Size</b> 	Saddle Stitch, Fold only	
	<b>Width x Length</b> Max. 356 x 254 mm or 14.000" x 10.000" Min. 120 x 90 mm or 4.725" x 3.545"	<b>Width x Length</b> Max. 356 x 305 mm or 14.000" x 12.000" Min. 120 x 90 mm or 4.725" x 3.545"
	Top Stitch and Fold	
	<b>Width x Length</b> Max. 356 x 216 mm or 14.000" x 8.500" Min. 180 x 90 mm or 7.090" x 3.545"	
	Corner Stitch and Fold	
	<b>Width x Length</b> Max. 326 x 182 mm or 12.820" x 7.165" Min. 210 x 105 mm or 8.270" x 4.135"	
<b>Stitch Thickness</b>	Top/Side Stitch, Corner Stitch and Fold Max. 4 mm or 0.155" (About 48 sheets of normal paper 64 gsm)	
<b>Fold Thickness</b>	Saddle Stitch Max. 2 mm or 0.075" (About 24 sheets of normal paper 64 gsm) (About 16 sheets of normal paper 81.4 gsm)	
<b>Stitch Distance</b>	73 to 290 mm or 2.875" to 11.400" Adjustable When saddle stitching, the stitch distance may be limited by the fold knife.	

MODEL	FC-200A	FC-200L
<b>Corner Stitching Position</b> 	3 to 15 mm or 0.120" to 0.590" Adjustable	
<b>Stitching Wire</b>	Standard: 0.5 mm (No.26) Option: 0.45 mm (No.27) Wire of 0.4 to 0.6 mm diameter can be installed on the standard stitchee.	
<b>Untrimmed Booklet Size</b> 	<b>Width x Length</b> Max. 356 x 254 mm or 14.000" x 10.000" Min. 120 x 90 mm or 4.725" x 3.545"	<b>Width x Length</b> Max. 356 x 305 mm or 14.000" x 12.000" Min. 120 x 90 mm or 4.725" x 3.545"
	<b>Finished Booklet Size</b> 	<b>Width x Length</b> Max. 356 x 250 mm or 14.000" x 9.840" Min. 120 x 85 mm or 4.725" x 3.350"
<b>Trim Width</b>	Max. 20 mm or 0.785" Min. 2 mm or 0.075"	
<b>Trim Thickness</b>	Max. 4 mm or 0.155"	
<b>Production Speed</b>	Max. 4,000 booklets per hour (A4-Finish, Portrait) Max. 4,500 booklets per hour (A5-Finish, Portrait)	Max. 4,000 booklets per hour (A4-Finish, Portrait) Max. 3,500 booklets per hour (A4-Finish, Landscape)
<b>Voltage/Frequency</b>	Single Phase 200 to 240 V, 50 or 60 Hz	
<b>Machine Dimensions</b>	W665 x D810 x H1,070 mm or W26.2" x D31.9" x H42.2"	W735 x D810 x H1,070 mm or W29.0" x D31.9" x H42.2"


## HOF-400 SPECIFICATIONS

<b>Sheet Size</b>	 <b>Width x Length</b> Max. 356 x 610 mm or 14.0" x 24.0" Min. 203 x 203 mm or 8.0" x 8.0"
<b>Sheet Weight Range</b>	Normal Paper: 52 to 157 gsm Coated Paper: 73 to 157 gsm *When you use thin sheets, you need to decrease the speed depending on the sheet size. *The machine can feed thick sheets or 157 through 209 gsm, but the feed speed will decrease.
<b>Production Speed</b>	Max. 25,000 sheets per hour (A3) 35,000 sheets per hour (A4 SEF) 45,000 sheets per hour (A4 LEF) (When the sheets are processed one by one.)  4,000 booklets per hour (Without Creasing, 16-page, A4 size booklet) 3,200 booklets per hour (With Creasing, 16-page, A4 size booklet) 5,000 booklets per hour (Without Creasing, 16-page, A5 size booklet) 4,000 booklets per hour (With Creasing, 16-page, A5 size booklet) The production speed is limited depending on the stitcher.
<b>Sheet Pile Height on Feed Tray</b>	Max. 620 mm or 24.4"
<b>Voltage/Frequency</b>	3-phase 200 to 220 V, 50 or 60 Hz 3-phase 380 / 400 / 415 V, 50 or 60 Hz
<b>Machine Dimensions</b>	HOF-400: W960 x D740* x H936 mm or W37.8" x D29.2" x D36.9" (*When including the blower box : 1,050 mm or 41.4") Blower Box: W553 x D305 x H350 mm or W21.8" x D12.0" x H13.8"

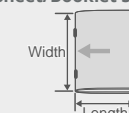
## TBC-200L SPECIFICATIONS

<b>Untrimmed Booklet Size</b>	 <b>Width x Length</b> Max. 356 x 305* mm or 14" x 12" (*When connecting with SPF-200L) Min. 120 x 85 mm or 4.725" x 3.347"
<b>Finished Booklet Size</b>	 <b>Width x Length</b> Max. 352 x 305 mm or 13.84" x 12" Maximum 356 mm or 14" width can only be transported. Min. 120 x 85 mm or 4.725" x 3.347"
<b>Trim Width</b>	Max. 25.4 mm or 1" Min. 2 mm or 0.08"
<b>Trim Thickness</b>	Max. 5 mm or 0.195"
<b>Production Speed</b>	Max. 4,000 booklets per hour
<b>Voltage/Frequency</b>	Single Phase 200 to 240 V, 50 or 60 Hz
<b>Machine Dimensions</b>	W1,063 x D845 x H1,076 mm or W41.9" x D33.3" x H42.4"

## ST-40 SPECIFICATIONS

<b>Sheet Size</b>	 <b>Width x Length</b> Max. 350 x 500 mm or 13.8" x 19.7" Min. 182 x 128 mm or 7.2" x 5.0"
<b>Sheet Weight Range</b>	52 to 208 gsm
<b>Production Speed</b>	8,000 sets per hour (A4 or 8.5" x 11" / 10 sheets / straight stacked) 5,000 sets per hour (A4 or 8.5" x 11" / 10 sheets / off-set stacked)
<b>Stack Capacity</b>	360 mm or 14.1"
<b>Max. Transport Thickness</b>	Max. 6 mm or 0.24"
<b>Voltage/Frequency</b>	Single Phase 200 to 220 V, 50 or 60 Hz Single Phase 230 V, 50 Hz
<b>Machine Dimensions</b>	W1,353 x D652 x H1,027 mm or W53.3" x D25.7" x H40.5" (including feed error tray)

## HP-200A SPECIFICATIONS

<b>Sheet/Booklet Size</b>	 Punch/Press	<b>Width x Length</b> Max. 356 x 254 mm or 14.000" x 10.000" (When inserting a paper, 356 x 235 mm or 14.000" x 9.250") Min. 210 x 148 mm or 8.270" x 5.830"
	Through	<b>Width x Length</b> Max. 356 x 508 mm or 14.000" x 20.000" Min. 120 x 90 mm or 4.725" x 3.545" Maximum Thickness of Sheet Block 4 mm or 0.157"(depending on the sheet weight)
<b>Sheet Weight Range</b>	Normal Paper : 64 to 157 gsm, Art Coated Paper : 85 to 157 gsm	
<b>Punch Thickness</b>	Max. 3.2 mm or 0.12" (Up to 40 sheets, 20 sheets stitched and folded, of 64 gsm)	
<b>Number of Holes</b>	4 holes	
<b>Punch Hole Pitch</b>	80 mm	
<b>Punch Hole Position</b>	Dimension from the booklet spine to center of hole can be adjusted from 9 through 14 mm with panel setting.	
<b>Punch Hole Diameter</b>	6 mm	
<b>Production Speed</b>	Saddle Stitch	Max. 4,300 booklets per hour (A5 booklet, booklet thickness 2.5 mm or less) Max. 4,000 booklets per hour (A4 booklet, booklet thickness 2.5 mm or less)
	Fold Only	Max. 4,000 booklets per hour (A5 booklet, booklet thickness 2.5 mm or less) Max. 3,700 booklets per hour (A4 booklet, booklet thickness 2.5 mm or less)
<b>Voltage/Frequency</b>	Single Phase 220 to 240 V, 50 or 60 Hz	
<b>Machine Dimensions</b>	W500 x D770 x H1,035 mm or W19.7" x D30.4" x H40.8"	

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