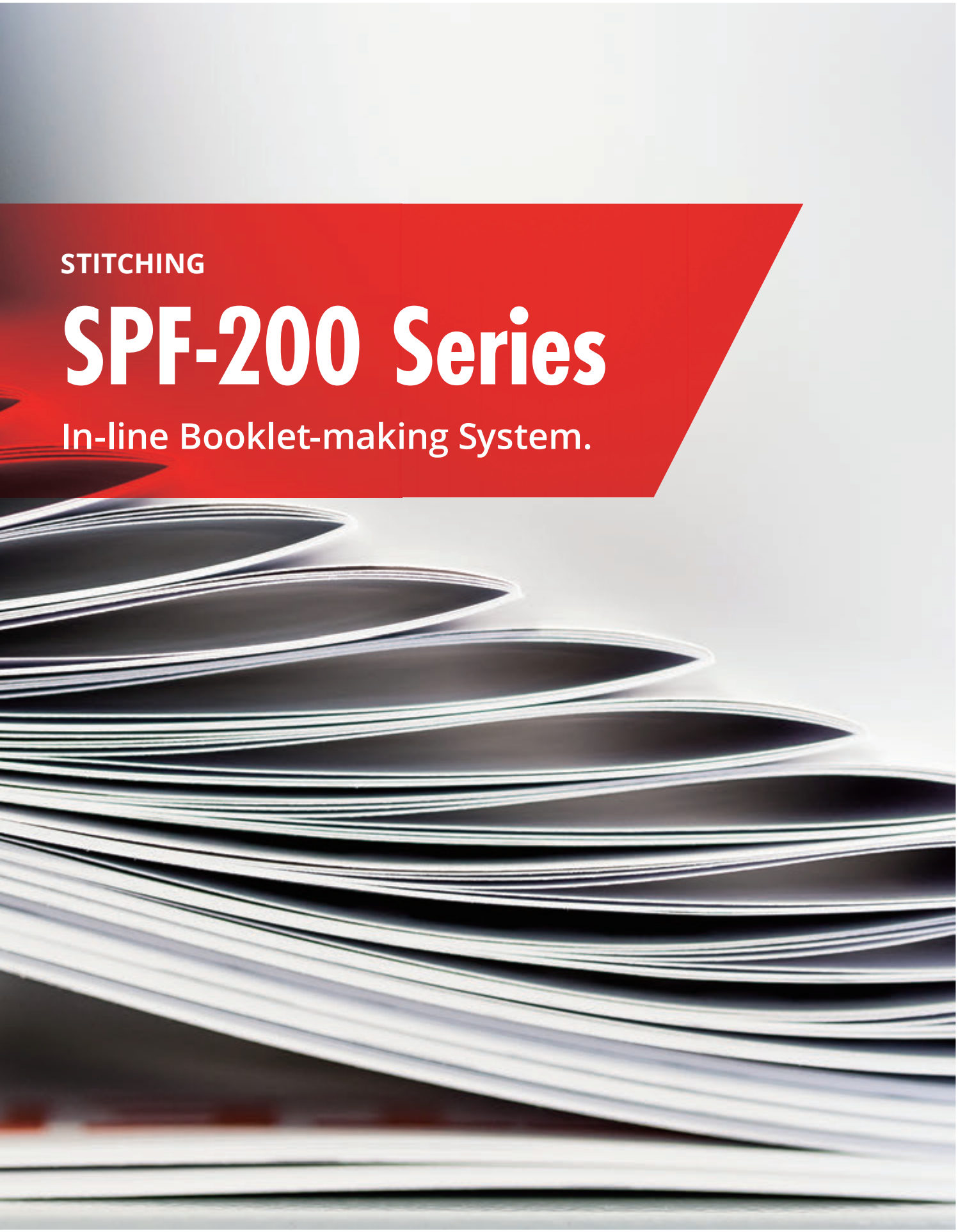
Horizon



STITCHING

SPF-200 Series

In-line Booklet-making System.

EFFICIENT AND PRODUCIVE BOOKLET PRODUCTION WITH EASY OPERATION.

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

BENEFITS

ADVANCED AUTOMATION

All necessary settings for a wide variety of booklet formats, ranging from CD to A4 landscape* 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.

*A4 landscape is available only with SPF-200L.

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 SAVINGS

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

NON-STOP OPERATION

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 HORIZON'S BINDERY CONTROL SYSTEM

The system can be enhanced with automated workflow from upstream to post-press with iCE LiNK, which uses cloud technology, Horizon's post-press management system.

TWO TYPES OF BOOKLETMAKING SYSTEMS

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 / 14" x 9.84"



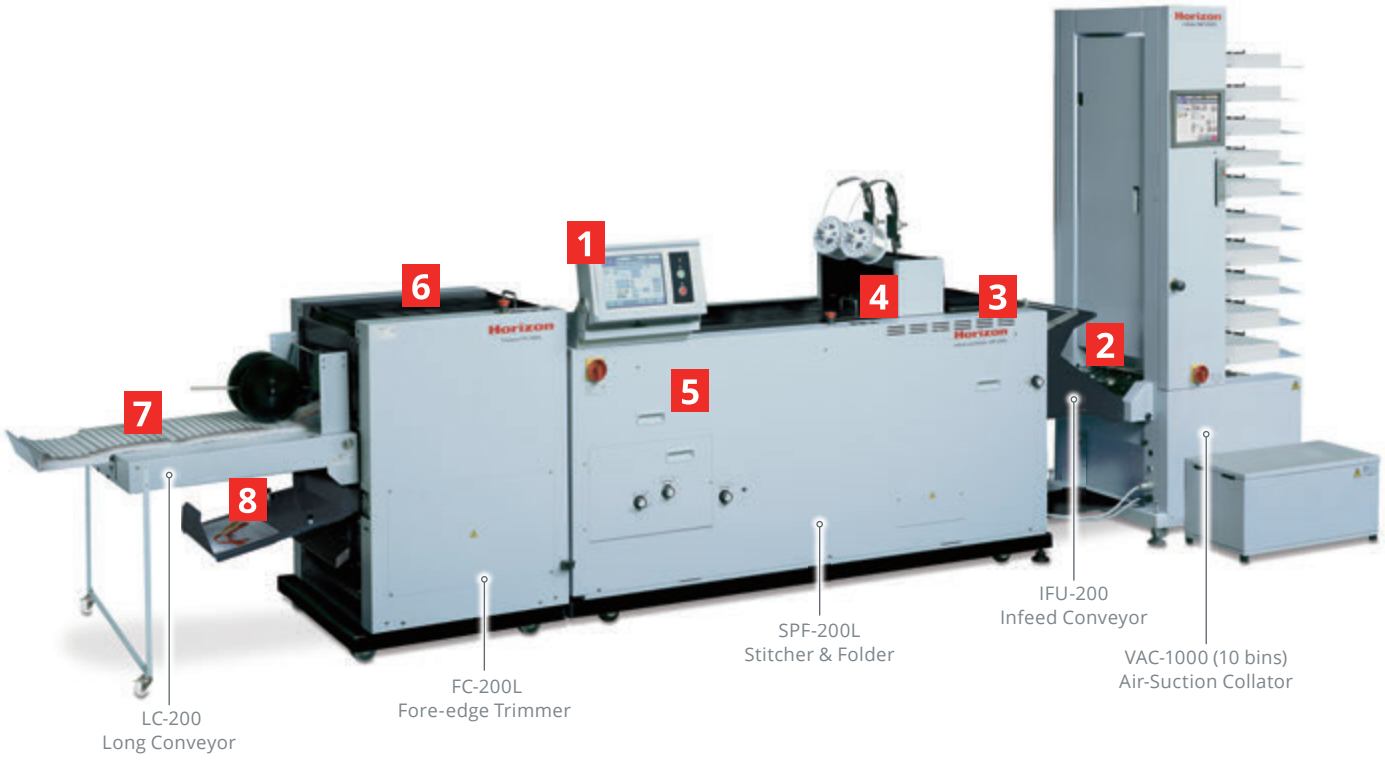
SPF-200L

FOR A4 LANDSCAPE BOOKLET PRODUCTION

The SPF-200L 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.
Max. finished booklet size: 356 x 305 mm / 14" x 12"



DETAILS FOR EACH DEVICE.



1 COLOR TOUCHSCREEN



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

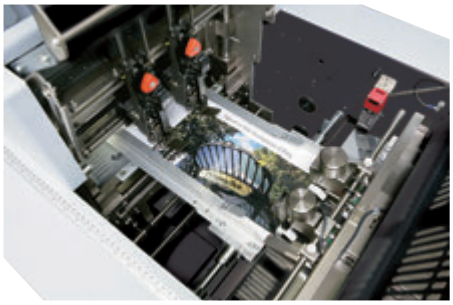
- Hand marrying mode 1:
  Insert sheets for one booklet.
- Hand marrying mode 2:
  Merge a hand fed set on top of a set from the collator.
- Hand marrying mode 3:
  Merge a set from the collator on top of a hand fed set.

3 JOGGING



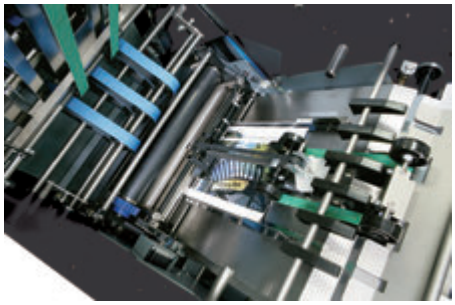
Jog count and stroke can be set to handle a wide variety of sheets.

4 STITCHING



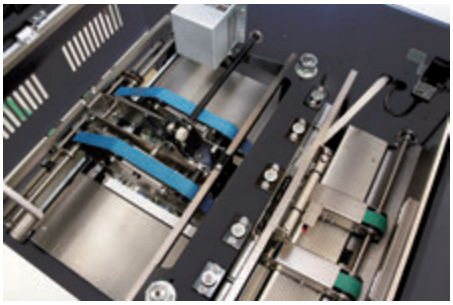
The wire feeding sensor alerts when the wire spool is nearly empty or jamming, and stops the system to eliminate non-stitched booklets. Up to 48 sheets of normal paper (64 gsm / 50lb. offset) can be stitched or up to 24 sheets of normal paper (64 gsm / 50lb. offset) can be stitched and folded. The stitching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

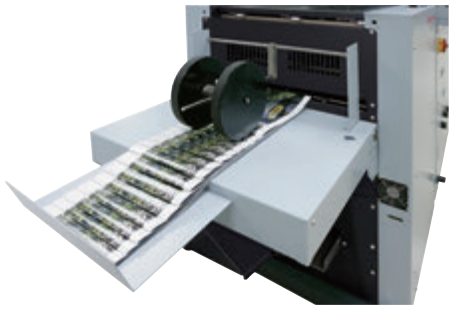


The servo-motor is employed for knife driving to provide high speed and sharp fore-edge trimming. The top-bottom transport belt insures smooth booklet transportation and delivery. Trimmings are blown down into the external trim box by air so that no chips are left in the trimming area. Durable casting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

Performance Enhancing Options.

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.
- High speed hole punching can be performed without effect on the production speed* of the SPF-200A. Hole punch, press and through modes can be selected for efficient in-line bookletmaking production.

  *Production speed changes depending on the binding mode, booklet thickness and sheet condition.

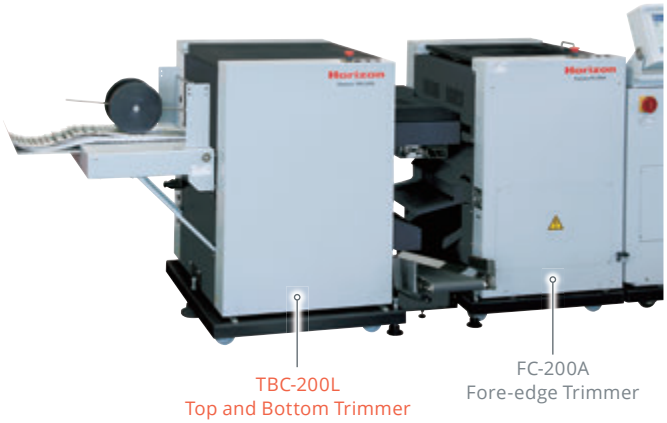
ST-40 BYPASS STACKER

- 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.



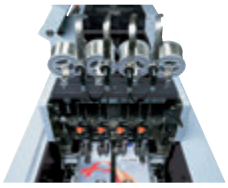
TBC-200L TOP AND BOTTOM TRIMMER

- 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.



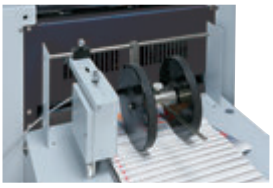
FST-200 FOUR STITCHING UNIT

- 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.



LOOP STITCH KIT (Part No. 9964401)

- 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/L enables the SPF-200A/L 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

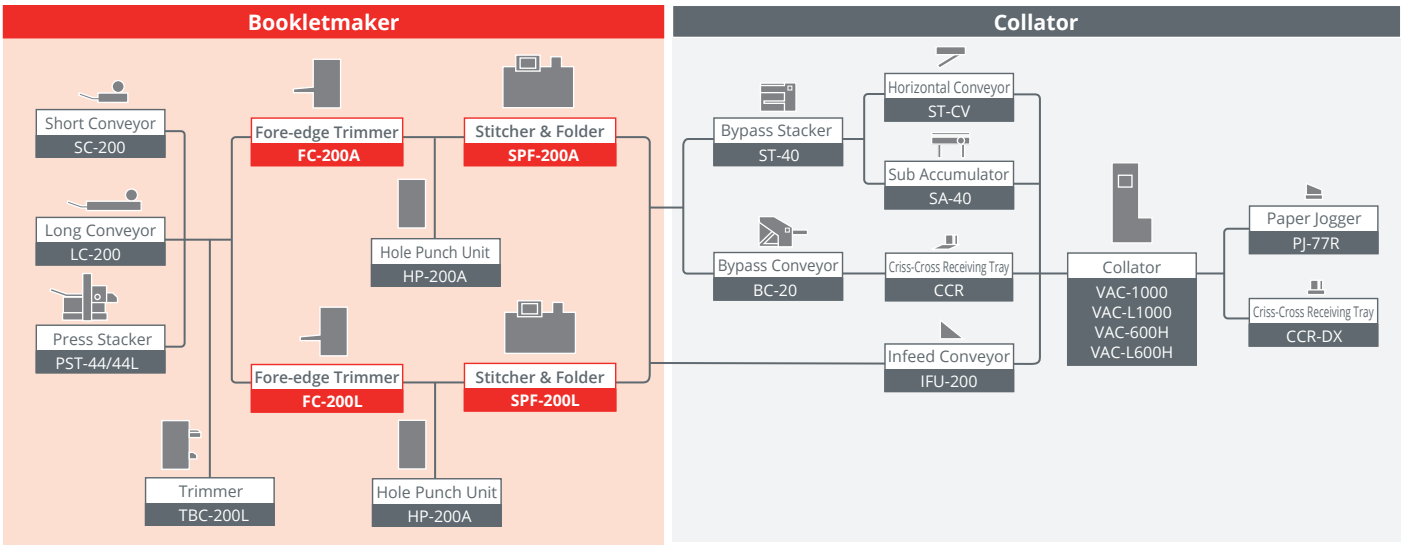
- The SDS-200 checks the stitch on each booklet for higher quality control. A mis-stitched booklet is rejected to the reject tray for non-stop operation.

SYSTEM CONFIGURATIONS.

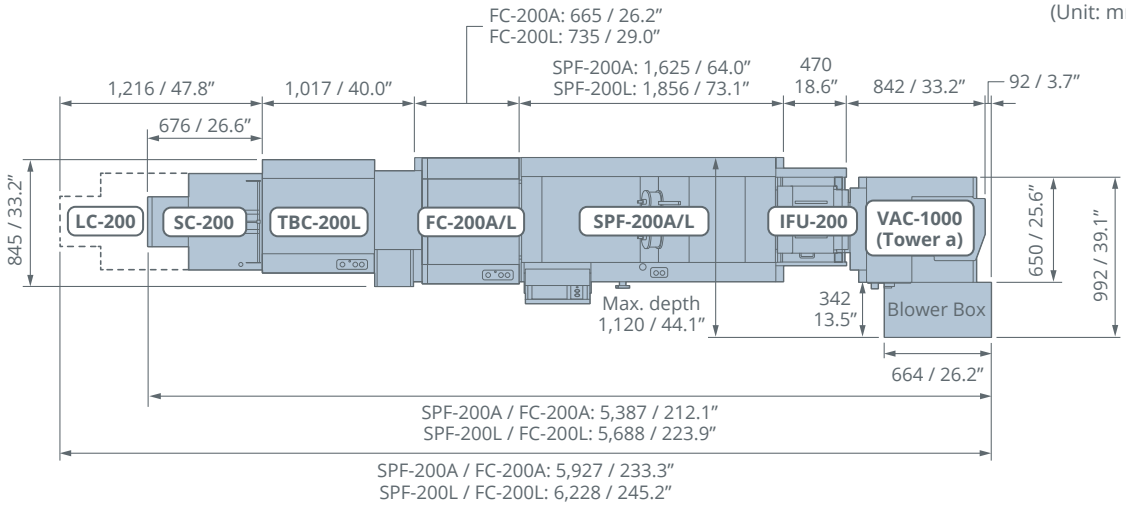
Available Combination of Models and Dimensions.

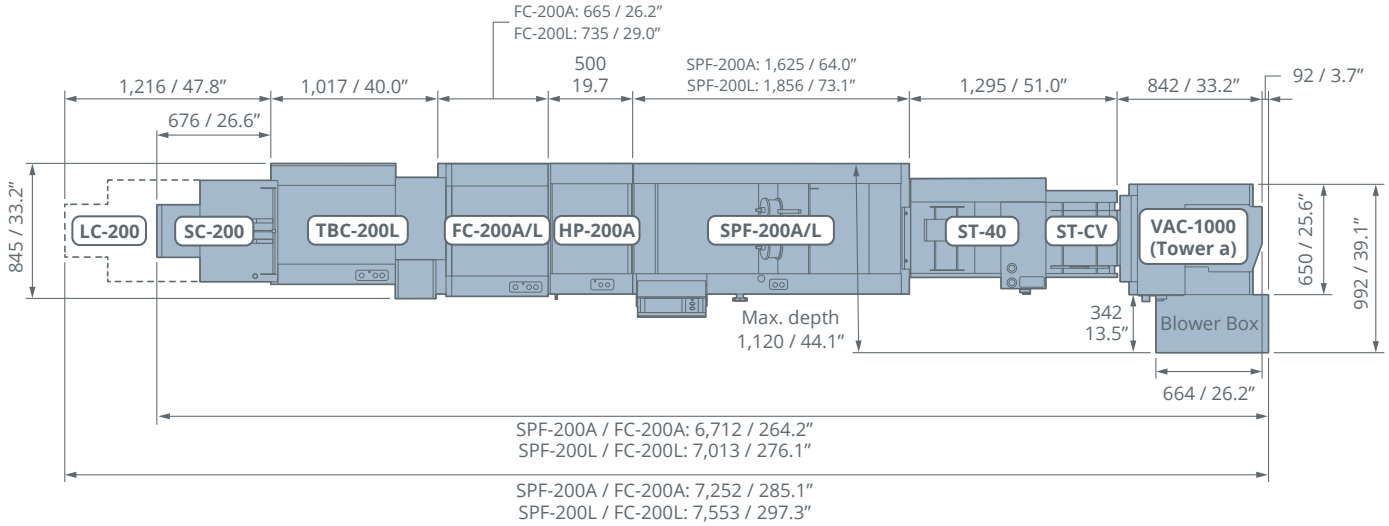
*The available range of sheet size and sheet weight can be limited depending on the connected models.
*The production speed is affected by the combination of the models.

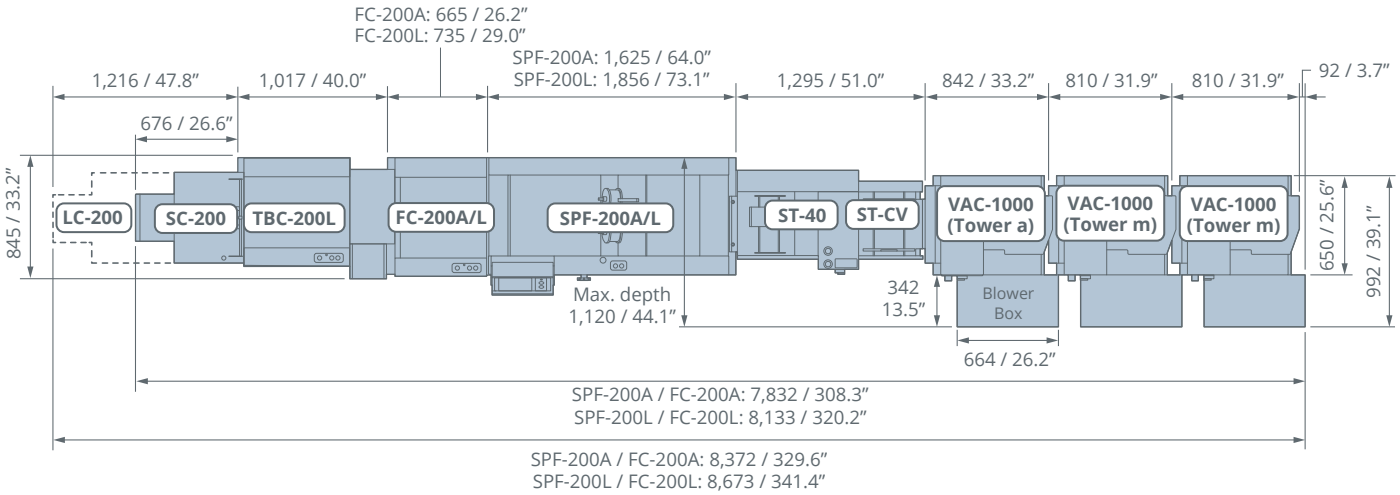
Combination of Models for Offset Print



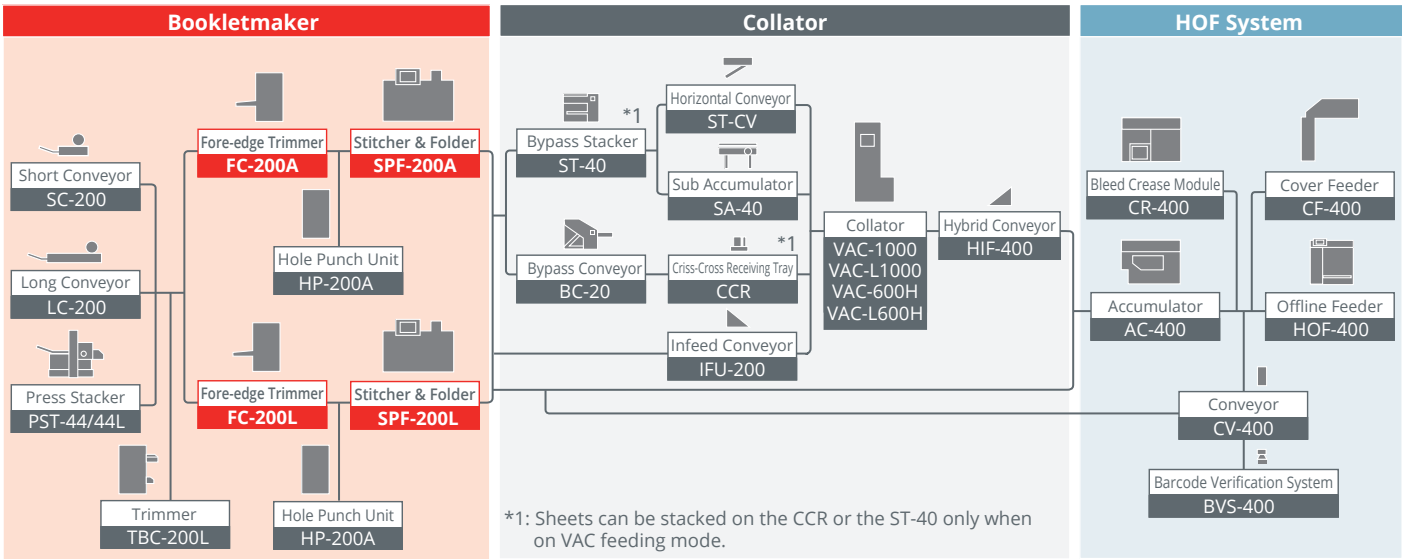
(Top View) (Unit: mm or inch)





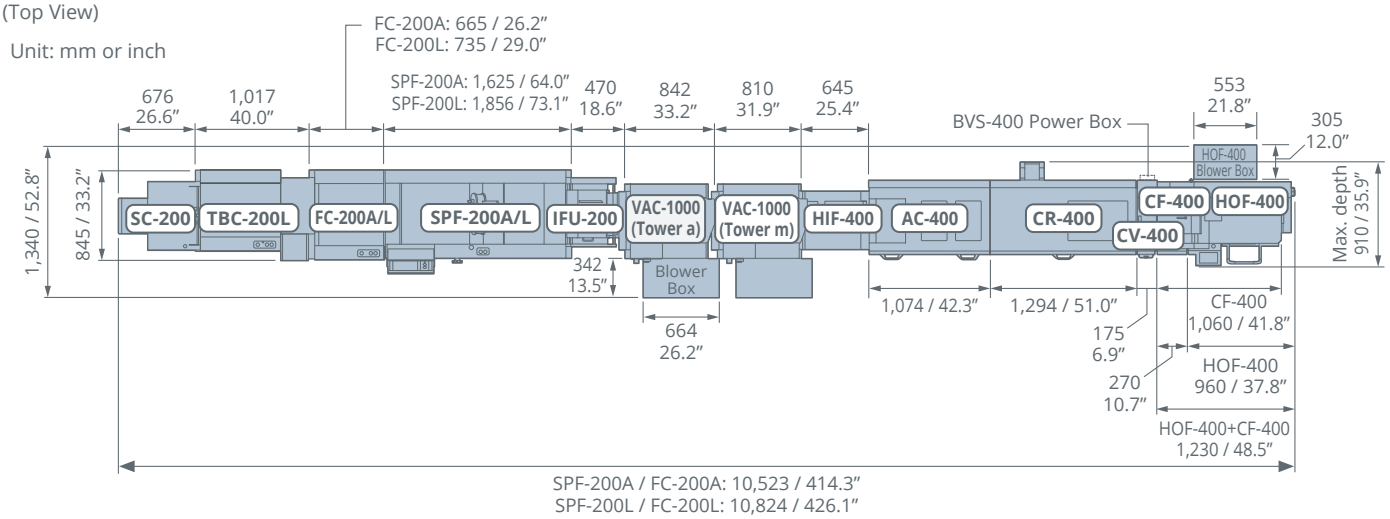


Combination of Models for Digital Print

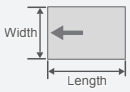
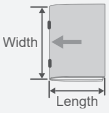
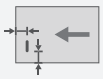


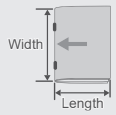
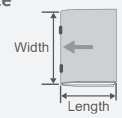
(Top View)

Unit: mm or inch

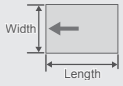


SPECIFICATIONS.

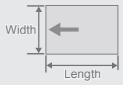
MODEL	SPF-200A	SPF-200L
Functions	Saddle Stitch, Top Stitch and Fold, Fold only (Option SSK-200A: Top/Side Stitch, Pass Through, Corner Stitch [Front/Rear], Corner Stitch and Fold)	
Sheet Size (Width x Length)  The range of sheet sizes available can be limited when the sheets are fed from the connected machine.	Saddle Stitch, Fold only, Pass Through	
	Max. 356 x 508 mm or 14" x 20" Min. 120 x 180 mm or 4.725" x 7.09"	Max. 356 x 610 mm or 14" x 24" Min. 120 x 180 mm or 4.725" x 7.09"
	Top/Side Stitch	
	Max. 356 x 432 mm or 14" x 17" Min. 180 x 138 mm or 7.09" x 5.435"	
	Top Stitch and Fold	
	Max. 356 x 432 mm or 14" x 17" Min. 180 x 180 mm or 7.09" x 7.09"	
	Corner Stitch, Corner Stitch and Fold	
	Max. 326 x 364 mm or 12.82" x 14.33" Min. 210 x 210 mm or 8.27" x 8.27"	
Sheet Weight Range	Normal Paper: 64 to 157 gsm Art Coated Paper: 84.9 to 157 gsm	
Booklet Size (Width x Length) 	Saddle Stitch, Fold only	
	Max. 356 x 254 mm or 14" x 10" Min. 120 x 90 mm or 4.725" x 3.545"	Max. 356 x 305 mm or 14" x 12" Min. 120 x 90 mm or 4.725" x 3.545"
	Top Stitch and Fold	
	Max. 356 x 216 mm or 14" x 8.5" Min. 180 x 90 mm or 7.09" x 3.545"	
	Corner Stitch and Fold	
	Max. 326 x 182 mm or 12.82" x 7.165" Min. 210 x 105 mm or 8.27" x 4.135"	
Stitch Thickness	Top/Side Stitch, Corner Stitch and Fold Max. 4 mm or 0.155" (About 48 sheets of normal paper 64 gsm)	
Fold Thickness	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)	
Stitch Distance	73 to 290 mm or 2.875" to 11.4" Adjustable When saddle stitching, the stitch distance may be limited by the fold knife.	
Corner Stitching Position 	3 to 15 mm or 0.12" to 0.59" Adjustable	
Stitching Wire	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 stitcher.	
Production Speed	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)
Voltage/Frequency	SPF-200A / SPF-200L: Single Phase 200 to 220 V, 50 or 60 Hz Single Phase 230 to 240 V, 50 or 60 Hz	
Machine Dimensions	SPF-200A: W1,625 x D810 x H1,250 mm or W64.0" x D31.9" x 49.3"	SPF-200L: W1,856 x D810 x H1,250 mm or W73.1" x D31.9" x H49.3"

MODEL	FC-200A	FC-200L
Untrimmed Booklet Size 	**Width x Length** Max. 356 x 254 mm or 14" x 10" Min. 120 x 90 mm or 4.725" x 3.545"	**Width x Length** Max. 356 x 305 mm or 14" x 12" Min. 120 x 90 mm or 4.725" x 3.545"
Finished Booklet Size 	**Width x Length** Max. 356 x 250 mm or 14" x 9.84" Min. 120 x 85 mm or 4.725" x 3.35"	**Width x Length** Max. 356 x 305 mm or 14" x 12" Min. 120 x 85 mm or 4.725" x 3.35"
Trim Width	Max. 20 mm or 0.785" Min. 2 mm or 0.075"	
Trim Thickness	Max. 4 mm or 0.155"	
Production Speed	Max. 4,000 booklets per hour (A4-Booklet) Max. 4,500 booklets per hour (A5-Booklet)	Max. 4,000 booklets per hour (A4-Finish, Portrait) Max. 3,500 booklets per hour (A4-Finish, Landscape)
Voltage/Frequency	Single Phase 200 to 240 V, 50 or 60 Hz	
Machine Dimensions	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"

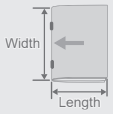
HOF-400

Sheet Size 	**Width x Length** Max. 356 x 610 mm or 14” x 24” Min. 203 x 203 mm or 8” x 8”
Sheet Weight Range	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.
Sheet Pile Height on Feed Tray	Max. 620 mm or 24.4”
Production Speed	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.
Voltage/Frequency	3-phase 200 to 220 V, 50 or 60 Hz 3-phase 380 / 400 / 415 V, 50 or 60 Hz
Machine Dimensions	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”

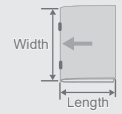
ST-40

Sheet Size 	**Width x Length** Max. 350 x 500 mm or 13.8” x 19.7” Min. 182 x 128 mm or 7.2” x 5”
Sheet Weight Range	52 to 208 gsm
Production Speed	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)
Stack Capacity	360 mm or 14.1”
Max. Transport Thickness	Max. 6 mm or 0.24”
Voltage/Frequency	Single Phase 200 to 220 V, 50 or 60 Hz
Machine Dimensions	W1,353 x D652 x H1,027 mm or W53.3” x D25.7” x H40.5” (including feed error tray)

HP-200A

Sheet/Booklet Size 	Punch/Press	**Width x Length** Max. 356 x 254 mm or 14” x 10” (When inserting a paper, 356 x 235 mm or 14” x 9.25”) Min. 210 x 148 mm or 8.27” x 5.83”
	Through	**Width x Length** Max. 356 x 508 mm or 14” x 20” 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)
Sheet Weight Range	Normal Paper: 64 to 157 gsm Art Coated Paper: 85 to 157 gsm	
Punch Thickness	Max. 3.2 mm or 0.12” (Up to 40 sheets, 20 sheets stitched and folded, of 64 gsm)	
Number of Holes	4 holes	
Punch Hole Pitch	80 mm	
Punch Hole Position	Dimension from the booklet spine to center of hole can be adjusted from 9 through 14 mm with panel setting.	
Punch Hole Diameter	6 mm	
Production Speed	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)
Voltage/Frequency	Single Phase 220 to 240 V, 50 or 60 Hz	
Machine Dimensions	W500 x D770 x H1,035 mm or W19.7” x D30.4” x H40.8”	

TBC-200L

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

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