

Horizon

Bookletmaker SPF-200A/FC-200A

SPF-200A/FC-200A

**It's so easy to use.
The New Standard for Bookletmaking.**



The SPF-200A/FC-200A bookletmaker features high productivity,

Features

Advanced Automation

All necessary settings can be performed automatically through the touchscreen display. Even the fold roller gap adjustment is automated.

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.

Color Touchscreen

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

High Speed Production

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 higher quality control.

JDF Workflow

System can be enhanced with JDF workflow from upstream to the postpress using pXnet bindery control system.

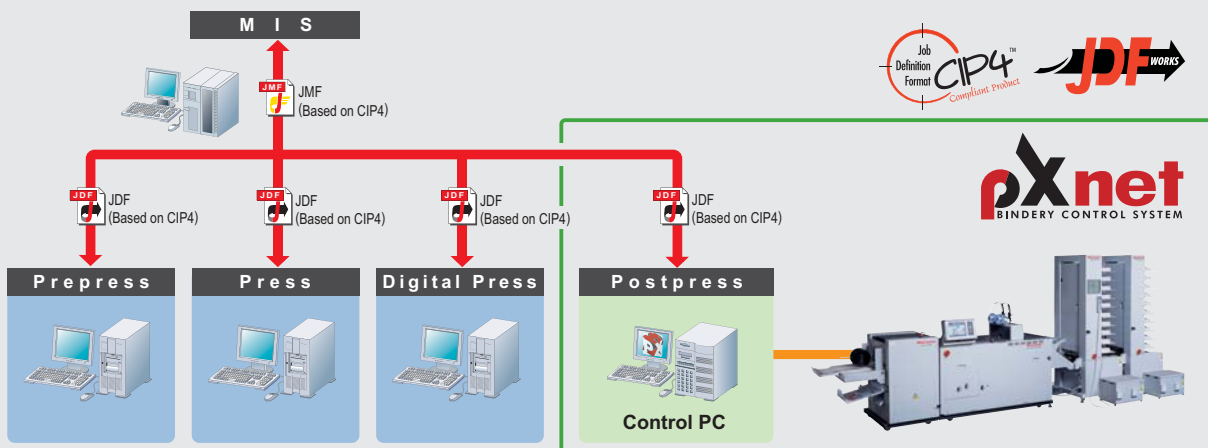


Enhance the SPF-200A/FC-200A with Horizon's unique pXnet bindery control system. **Option**



The Horizon pXnet system leverages the power of JDF across the bindery, allowing jobs to flow seamlessly through the entire print production process from MIS, Prepress, Press and Postpress.

quick fully-automatic changeover and user-friendly operation.



pXnet Bindery Control System based on the view of CIP4

The SPF-200A/FC-200A is a high-performance in-line bookletmaking system with collating, stitching, folding and fore-edge trimming at production speeds up to 4,500 books per hour.



SPF-200A Stitcher & Folder

Color Touchscreen 1

- The 10.4 inch color touchscreen is intuitive and icon-based for user-friendly operation.
- 200 job settings can be entered and stored alphanumerically, for quick easy search and retrieval.
- Collating system can be controlled from the SPF-200A.
- Fine adjustments can be performed on-the-fly while running for high quality finishing.



Stitching 3

- 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) can be stitched or up to 24 sheets of normal paper (64 gsm) can be stitched and folded.
- Reliable Hohner stitcher heads are equipped for quality book production.
- The stitching position and distance are automatically set up for the input size.



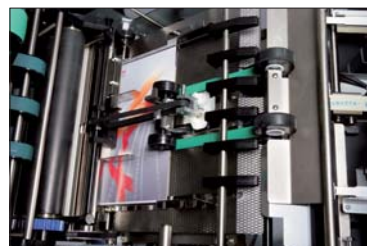
Jogging 4

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



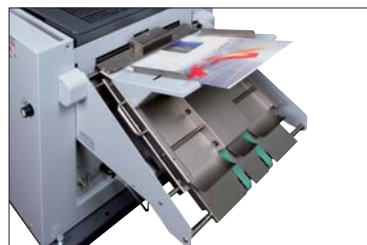
Folding 5

- 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.
- The sheet is firmly registered with tail edge and top-bottom guides to provide accurate folds.



Hand Marrying : IFU-200 2

- Three kinds of hand marrying mode are available.
Hand marrying mode (top feed) :
Merge a hand fed set on a set from the collator.
Hand marrying mode (bottom feed) :
Merge a set from the collator on a hand fed set.
Simple hand feeding mode :
Insert one booklet.



FC-200A Fore-edge Trimmer

Fore-edge Trimming 1

- 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.



Conveyor 2 Selection

- Either the SC-200 Short Conveyor or the LC-200 Long Conveyor is selected.
- Conveyor belt running time and batch counter can be controlled from the SPF-200A touchscreen.
- The booklet on the conveyor can be easily delivered pressing eject button.
- The conveyor is connectable to the SPF-200A directly.

SC-200 Short Conveyor

- The SC-200 is compact conveyor which saves the floor space. Finished booklets are neatly delivered to the exit conveyor.



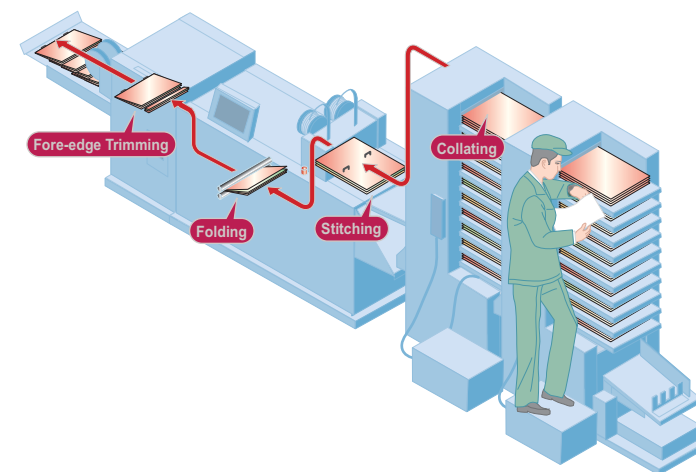
LC-200 Long Conveyor

- The LC-200 is 54 cm (21") longer than the SC-200 Short Conveyor. The large number of booklets are neatly delivered.



Faulty Set Rejection 3

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



Options

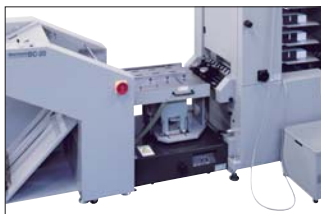
ST-40 Bypass Stacker

- Connects the collators to the SPF-200A, 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.



BC-20 Bypass Conveyor

- One-touch switching between the bookletmaker and Criss-Cross receiving tray.
- A built-in reject tray is provided for non-stop collation.



SA-40 Sub Accumulator

- The SA-40 temporarily accumulates the sheets delivered from the collator and stabilizes the sheet jog for quality stitching and bookletmaking.



*ST-40 requires to connect SA-40.

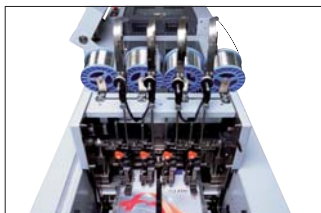
SSK-200 Side/Corner Stitch Kit

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



FST-200 Four Stitching Unit

- Additional stitcher heads can be mounted for up to 4 stitches per booklet. Optional stitcher heads (#28 – thickness 0.4 mm) are available.



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.



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.



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.



TB-200 Chip Extractor

- Powerfully extracts cutting waste from the fore-edge trimmer.



PST-40 Press Stacker

- The first rollers remove the air and the second rollers powerfully compress the booklet for reduced bulk and tighter finishing.



MKU-54 Mobile Knife Fold Unit

- Finished booklets can be folded in line with the SPF-200A.
- Knife unit reverse function provides flexibility to choose fold-up or fold-down.



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.

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.

HP-200A Hole Punch Unit **Option**

User-friendly, highly productive performance for efficient hole-punched bookletmaking.

User Friendliness

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.

Stability

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 Productivity

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.

Specifications

Sheet Size	Punch / Press	Max. 356(W) x 254(L) mm (14.00" x 10.00") (When inserting a paper, 356(W) x 235(L) mm [14.00" x 9.25"]) Min. 210(W) x 148(L) mm (8.27" x 5.83")
	Through	Max. 356(W) x 508(L) mm (14.00" x 20.00") Min. 120(W) x 90(L) mm (4.73" x 3.55") Max. Thickness of Sheet Block 4 mm (0.15") (Depending on sheet weight)
Sheet Weight Range		64 to 157 gsm Normal Paper / 85 to 157 gsm Coated Paper
Punch Thickness		Max. 3.2 mm (0.12") (Up to 40 sheets, 20 sheets stitched and folded, of 64 gsm)
Number of Holes		4 / 2 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/hr. (A5 Booklet, Booklet Thickness 2.5 mm [0.098"] or less)
	Fold Only	Max. 4,000 booklets/hr. (A5 Booklet, Booklet Thickness 2.5 mm [0.098"] or less)
Machine Dimensions		500(W) x 770(D) x 1,035(H) mm (19.7" x 30.4" x 40.8")
Machine Weight		186 kg (410 lb)



HOF-20 / HOF-30 High Speed Off-line Feeder **Option**

Near-Line Solution with HOF-20/30

As digital printing becomes more popular, the finishing required has become more diverse. Variable data applications with different contents or a different number of pages per book are increasing. Horizon offers the HOF series off-line sheet feeder as the best near-line solution for bookletmaking of digitally-imaged output.

The advantages of this near-line solution;

- High Productivity** - Since the printer and finisher are physically separate, the printer and finisher can run at highest speed independent of the production speed of the other system.
- Economic Efficiency** - A single system can handle the output from multiple printers.
- Flexibility** - The HOF-30 can be connected to the collators to handle both offset and digital output.



FC-200A+SPF-200A+HOF-30+VAC-100 (20 bins)

Specifications

Model	HOF-30	HOF-20
Sheet Size	Max. 350(W) x 500(L) mm (13.77" x 19.68") Min. 200(W) x 275(L) mm (7.88" x 10.83") Bypass mode: Min. 120(W) x 180(L) mm (4.73" x 7.09")	Max. 350(W) x 500(L) mm (13.77" x 19.68") Min. 200(W) x 275(L) mm (7.88" x 10.83")
Sheet Weight Range	52 to 130 gsm Normal Paper 73 to 160 gsm Coated Paper	Sheet Feed Station: 52 to 130 gsm Normal Paper 73 to 160 gsm Coated Paper Cover Feed Station: 64 to 256 gsm Normal Paper 79 to 256 gsm Coated Paper
Feed Speed	Max. 27,000 sheets/hr.	Sheet Feed Station: Max. 27,000 sheets/hr. Cover Feed Station: Max. 8,000 sheets/hr.
Sheet Pile Height on Feed Tray	Max. 430 mm (16.9")	Sheet Feed Station: Max. 430 mm (16.9") Cover Feed Station: Max. 130 mm (5.1")
Machine Dimensions	1,460(W) x 630(D) x 945(H) mm (57.5" x 24.9" x 37.3")	1,750(W) x 630(D) x 950(H) mm (68.9" x 24.9" x 37.5")
Machine Weight	180 kg (396 lb)	210 kg (463 lb)



FC-200A+SPF-200A+HOF-20

SPF-200A Major Specifications

Functions	Saddle Stitch and Fold only (Option : Top/Side Stitch, Top Stitch and Fold, Rear Corner Stitch, Front Corner Stitch, Pass Through)
Sheet Size	Saddle Stitch and Fold only Max. 356(W) x 508(L) mm (14.000" x 20.000") Min. 120(W) x 180(L) mm (4.725" x 7.090") Option : Top/Side Stitch Max. 356(W) x 432(L) mm (14.000" x 17.000") Min. 180(W) x 138(L) mm (7.090" x 5.435") Top Stitch and Fold Max. 356(W) x 432(L) mm (14.000" x 17.000") Min. 180(W) x 180(L) mm (7.090" x 7.090") Corner Stitch Max. 326(W) x 364(L) mm (12.820" x 14.330") Min. 210(W) x 210(L) mm (8.270" x 8.270") Pass Through Max. 356(W) x 508(L) mm (14.000" x 20.000") Min. 120(W) x 180(L) mm (4.725" x 7.090") <small>*The range of sheet size available can be limited when the sheets are fed from VAC/HOF. VAC-100/60H : Max. 350(W) x 500(L) mm (13.775" x 19.685") Min. 120(W) x 148(L) mm (4.725" x 5.830") HOF-20/30 : Max. 350(W) x 500(L) mm (13.775" x 19.685") Min. 200(W) x 275(L) mm (7.875" x 10.830")</small>
Sheet Weight Range	Normal Paper : 64 to 157 gsm, Art Coated Paper : 85 to 157 gsm
Booklet Size	Saddle Stitch and Fold only Max. 356(W) x 254(L) mm (14.000" x 10.000") With Trimming : Max. 356(W) x 250(L) mm (14.000" x 9.840") Min. 120(W) x 90(L) mm (4.725" x 3.545") Option : Top Stitch and Fold Max. 356(W) x 254(L) mm (14.000" x 10.000") Min. 180(W) x 90(L) mm (7.090" x 3.545")
Stitch Thickness	Max. 4 mm (About 48 sheets of Normal Paper 64 gsm) only for Top/Side Stitch and Corner Stitch
Fold Thickness	Max. 2 mm (About 24 sheets of Normal Paper 64 gsm) (About 16 sheets of Normal Paper 82 gsm)
Stitch Distance	73 to 290 mm (2.875" x 11.400") Adjustable In saddle stitching, the stitch position can be limited by the fold knife. Optional stitching head is available for four stitches.
Stitching Wire	Standard : No.26 (0.5 mm), Option : No.28 (0.4 mm)
Error Detector / Indicator	Jam Detection, Wire Feeding Detection, Jog Error Detection, Option : Stitch Detection
Counter	Total Booklet Count, Batch Count
Production Speed	Max. 4,000 booklets/hr. (A4-Finish), Max. 4,500 booklets/hr. (A5-Finish)
Voltage / Frequency	Single Phase 200 / 220 / 230 / 240 V, 50 / 60 Hz
Rated Current	SPF-200A+FC-200A 200 V, 50 Hz, 6.6 A / 60 Hz, 6.4 A 220 V, 50 Hz, 6.4 A / 60 Hz, 5.9 A 230 V, 50 Hz, 5.3 A / 60 Hz, 5.1 A 240 V, 50 Hz, 5.1 A / 60 Hz, 4.8 A
	SPF-200A Only 200 V, 50 Hz, 4.4 A / 60 Hz, 4.2 A 220 V, 50 Hz, 4.3 A / 60 Hz, 4.0 A 230 V, 50 Hz, 3.4 A / 60 Hz, 3.2 A 240 V, 50 Hz, 3.1 A / 60 Hz, 3.0 A
Power Consumption	SPF-200A+FC-200A 200 V, 50 Hz, 1,020 W / 60 Hz, 1,060 W 220 V, 50 / 60 Hz, 1,050 W 230 V, 50 / 60 Hz, 1,040 W 240 V, 50 Hz, 1,050 W / 60 Hz, 1,030 W
	SPF-200A Only 200 V, 50 / 60 Hz, 650 W 220 V, 50 / 60 Hz, 680 W 230 V, 50 Hz, 680 W / 60 Hz, 660 W 240 V, 50 / 60 Hz, 640 W
Heat Output	SPF Main Body : 2,830 kJ (680 kcal) Delivery Conveyor (SC-200 / LC-200) : 10 kJ (4 kcal)
Motors	SPF Main Body : 400 W x 1, 200 W x 1, 25 W x 1 Delivery Conveyor (SC-200 / LC-200) : 15 W x 1
Machine Dimensions	2,765(W) x 810(D) x 1,250(H) mm (108.9" x 31.9" x 49.3") (with IFU-200 and SC-200)
Noise Level	L _A peak : 82.0 dB, L _A eq : 77.9 dB
Machine Weight	SPF-200A+SSK-200 : 468 kg (SPF Accessory 14 kg), IFU-200 : 22 kg, SC-200 : 20 kg
Options	Side/Corner Stitch Kit : SSK-200, Paper Insertion Knife Unit : PN-200, Stitch Detector : SDS-200, Four Stitching Unit : FST-200, Short Conveyor : SC-200, Long Conveyor : LC-200

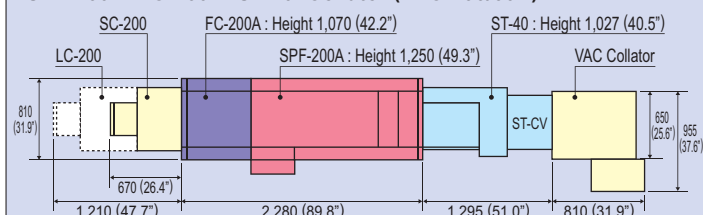
FC-200A Major Specifications

Booklet Size (Before Trim)	Max. 356(W) x 254(L) mm (14.000" x 10.000") Min. 120(W) x 90(L) mm (4.725" x 3.545")
Booklet Size (After Trim)	Max. 356(W) x 250(L) mm (14.000" x 9.840") Min. 120(W) x 85(L) mm (4.725" x 3.350")
Trimming Width	Max. 20 mm (0.785")
Trimming Thickness	Max. 4 mm (0.157")
Production Speed	Max. 4,000 booklets/hr. (A4-Finish), Max. 4,500 booklets/hr. (A5-Finish)
Error Detector / Indicator	Jam Detection, Trim Full Detection, Faulty Set Ejection Tray Jam Detection, Option : Booklet Thickness Detection
Counter	Fore-edge Trimming Counter
Other Function	Faulty Set Ejection
Heat Output	1,360 kJ (330 kcal)
Motors	400 W x 1, 90 W x 1, 60 W x 1
Machine Dimensions	1,335(W) x 810(D) x 1,070(H) mm (52.6" x 31.9" x 42.2") (with Short Conveyor SC-200)
Machine Weight	244 kg (FC Accessory 14 kg)
Options	Chip Extractor : TB-200, Booklet Thickness Detector : TD-200, Preset Kicker : PK-30

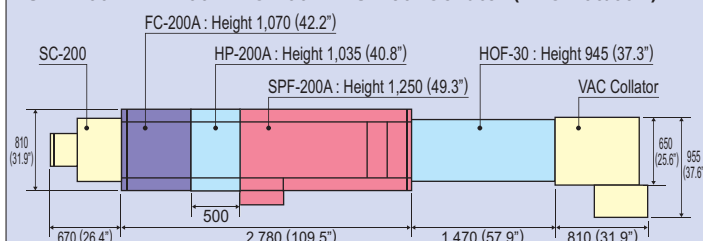
*The machine design and specifications are subject to change without any notice.

Machine Dimensions Unit : mm (inch)

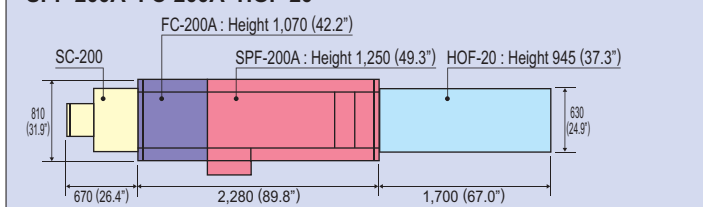
SPF-200A+FC-200A+ST-40+Collator (VAC-100/60H)



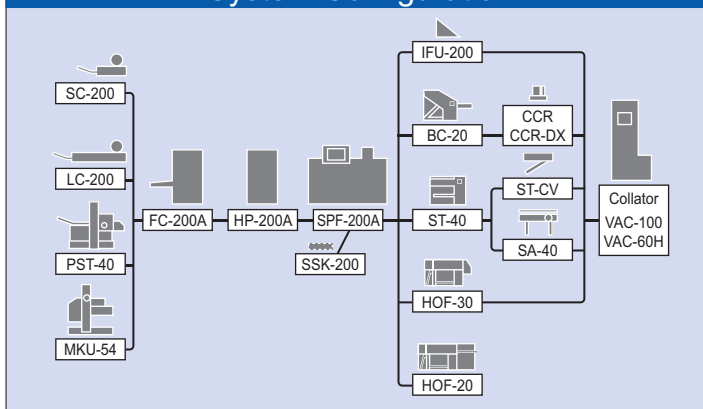
SPF-200A+HP-200A+FC-200A+HOF-30+Collator (VAC-100/60H)



SPF-200A+FC-200A+HOF-20



System Configuration



Options

- Infeeder Unit : IFU-200
- Side/Corner Stitch Kit : SSK-200
- Short Conveyor : SC-200
- Long Conveyor : LC-200
- Stitch Detector : SDS-200
- Four Stitching Unit : FST-200
- Preset Kicker : PK-30
- Booklet Thickness Detector : TD-200
- Paper Insertion Knife Unit : PN-200
- Loop Stitch Kit (Part No. 9964401)
*Required for each stitcher head.
- Chip Extractor : TB-200
- Press Stacker : PST-40
- Mobile Knife Fold Unit : MKU-54

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