

Horizon

SPF-20/FC-20 series

High Speed Off-line Feeder HOF-30

High-speed & Heavy-duty Bookletmaker.



Simple Set-up, Quick-Changeover, and Quality Bookletmaking from CD to A4.

● Features

■ EASY OPERATION

SPF-20A/FC-20A

Fully automated set-up with the touch-button input on display.

Graphical User Interface guides you set-up procedure and operation.

SPF-20/FC-20

Simple handle and dial adjustment for set-up. They are accessible from the outside at the operation side.

■ MULTI FUNCTION

SPF-20/20A

Bookletmaking sheet size : 120 x 180 mm (4.8" x 7.1") to 350 x 500 mm (13.7" x 19.6").

Four different job pattern, Bookletmaking, Side/Top stitch, Corner stitch, and Fold only.

FC-20/20A

A quality fore-edge trimming to produce professionally finished booklets.

■ HIGH SPEED OPERATION

Over 4,000 high quality A4 / 8.5" x 11" size booklet per hour. (with VAC-100 collator)

■ HAND-FEED

Hand-feed bookletmaking function without disconnecting the SPF-20/20A from the collator.

■ FLEXIBILITY

Connectable with all Horizon collators;

Suction Collators : VAC-100/60H, MC-80, TC-8, TAC-8

Friction Collators : HAC-120, HAC-15, SAC-150

■ MEMORIZE FREQUENT JOB SETTINGS

12 different job settings can be stored into memory.



VAC-100 (20 bins) + SA-40 + ST-40 + SPF-20A + HP-20A + FC-20A



MC-80 (16 bins) + SPF-20 + FC-20

User Friendly Operation

- The SPF-20A is equipped with touch-button LCD (liquid crystal display). All the setting, sheet size and job pattern, even micro-adjustment while operation can be done on this display. (SPF-20A)
- The operation control in the SPF-20 allows you to start and stop the collators.
- The operation speed can be also adjusted in indefinitely-variable steps.
- The sheet-jogging mode can be selected: either single jog or continuous jog.



Neat Jog and Heavy-duty Stitcher

- The tail and side joggers neatly align collated sheets.
- The stitching position can be easily adjusted according to the size of sheets to be run with simple dial adjustment.
- The "Hohner" stitcher heads feature a steady performance and longer machine life.



High Precision Folding

- The following three set-ups can be easily adjusted by each corresponding dials from the outside of the operating side of the machine: sheet skewing in the folding section, knife height, and opening between the fold-plates.
- The roller gap can be easily adjusted in five steps according to the booklet thickness.
- The large diameter of the folding and press rollers produces more folding pressure, providing crisp tight folds.

Quality Trimming

- Adjusting the length between the spine and fore-edge of the booklet to be handled is all you have to do for the trimmer set-up.
- Positive in-feed, self register and heavy-duty clamp and spine pressure insure a high quality finish with unmatched reliability.
- Unique spring loaded upper blade automatically adjust to the lower blade extending blade life.
- Trimmings are blown down into the dust box by air so that no chips are left in the cutting area.
- A total counter and a resetable production counter are provided as standard.



Neat Delivery on Conveyor

- Either booklets or side stitched sets can be delivered to the same delivery conveyor without any adjustment and job-changeover.
- Variable delivery belt advancement insures smooth delivery and easy handing regardless of book thickness.

SPF-20/FC-20 series Options

■ HOF-30 : High Speed Off-line Feeder

The HOF-30 is the high-speed sheet feeder. As pre-collated digital print volumes grow, and converge with offset print environments, the HOF-30 is the perfect finishing solutions to serve both print sources.



High Speed

The system feeds at a speed of 27,000 sheets/hr., using Horizon's patented rotary feeding system. Feeding speed is unaffected by sheet size.

High Pile

Pile height is 430 mm. 2 sets of feeding tray are provided as standard equipment for maximum efficiency.

Stable Feeding

Horizon's unique stream feeding system insures that sheets are fed consistently and reliably. Sets are then accumulated and transported to the bookletmaking accessories.

Versatility

When connected with VAC-series collators, the HOF-30 is a flexible finishing solution serving both digital and offset printing. For digital work, the HOF-30 is a high-speed sheet feeder while the VAC-series collator provides cover inserting. When the VAC-series collator is feeding offset work, the HOF-30 serves as a bypass conveyor and reject tray for nonstop production.

Dynamic

The HOF-30 has the capability to handle variable data applications. A mark reader enables the HOF-30 to handle variable sheet count documents with integrity and verification.

High Security

Opacity sensor: Miss-feed, double-feed or jam detection

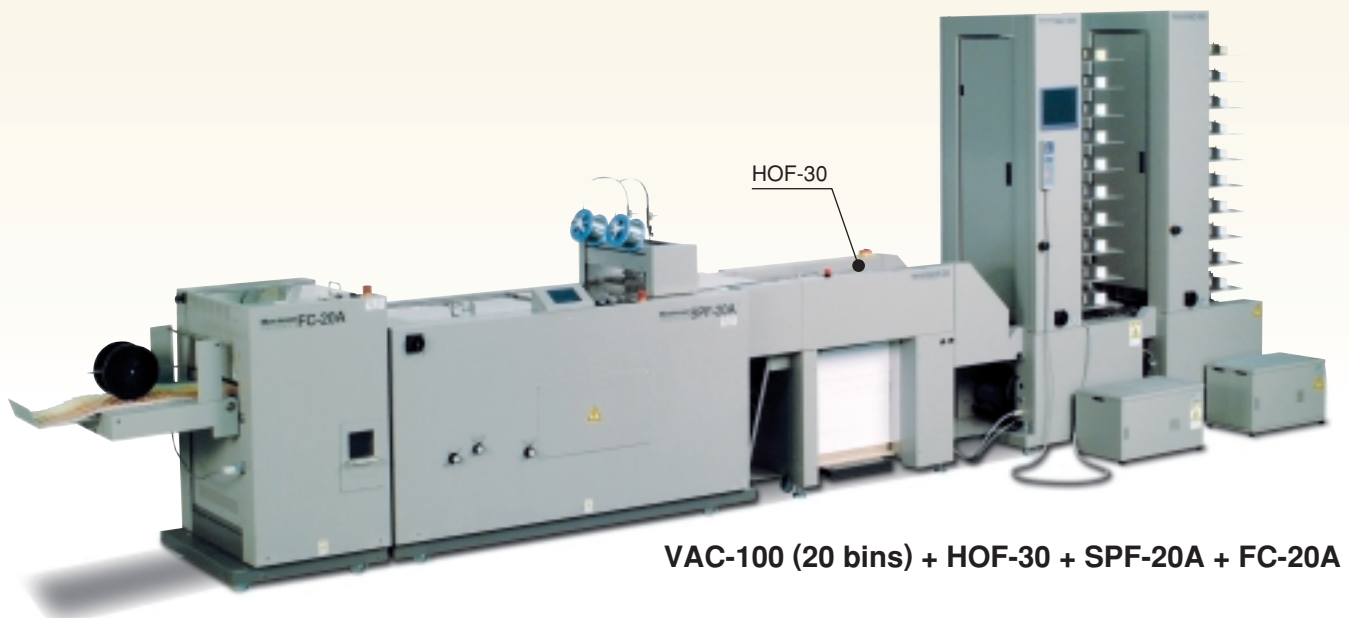
Mark sensor: Page order detection (top and last sheet)

Optional CCD camera: Image detection for cover (cover only)



■ Pre-loading Tool & Tray

(Standard Equipments for HOF-30)



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

SPF-20/FC-20 series Options

■ HP-20A : Hole Punch and Press Unit



- The HP-20A can automatically adjust transport speed, guides position, booklet stop and forward roller position. (when connected with SPF-20A/FC-20A)
- With the push of a button, three modes -punch, press or bypass -can be selected.
- 12 different job settings can be stored into memory.
- Even though the punch function is disengaged, the booklet is still pressed (100 kg press) for tighter fold.
- Can be connected with both of SPF-20/FC-20 and SPF-20A/FC-20A.

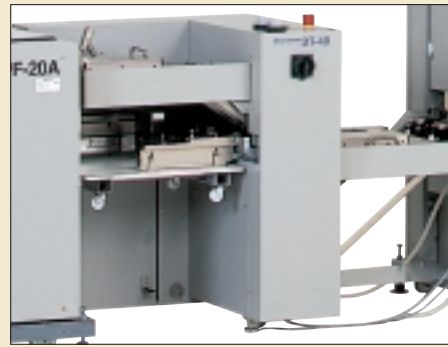


■ SA-40 : Accumulator



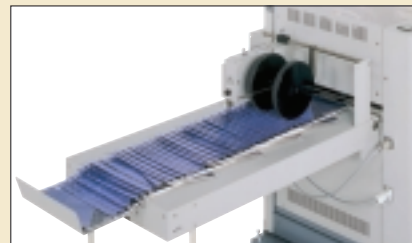
- The new accumulator SA-40 fits in between a VAC series collator and the ST-40 stacker. Sheets are jogged and accumulate before the sets are delivered to the stitching accessories.

■ ST-40 : Bypass Stacker



- The ST-40 can be operated on-line between the collator and the SPF-20 series bookletmaker.
- Two different jobs, bookletmaking and stacking, can be selected easily by switch on the ST-40.
- The error sets are delivered to the build-in reject tray for maximum non-stop operation.

■ LC-20 : Long Conveyor



- The LC-20 is a long conveyor for quantity production. This conveyor gives you enough time for packing of the booklets.

■ PK-20 : Preset Kicker



- The PK-20 is a preset kicker unit for separation of booklets. According to the preset number, a booklet is skewed for identification of the separation.

■ PN-20 : Paper Insertion Knife Unit

- The PN-20 is a retrofit kit for single separate sheet insertion. When your customer requires single sheet insert in the middle of the folded booklets, this unit ensures the single sheet in position.

SPF-20 series Major Specifications

Sheet Size	Max. 350(W) x 500(L) mm (13.7" x 19.6")
	Min. 120(W) x 180(L) mm (4.8" x 7.1")
Finish Size	Max. 250(W) x 350(L) mm (9.8" x 13.7")
	Min. 90(W) x 120(L) mm (3.6" x 4.8")
Stitching Thickness	Max. 4 mm (0.15") (only for side stitch)
Stitching & Folding Thickness	Max. 2 mm (0.07")
	20 sheets of 60 gsm
Stitch Distance	73 to 160 mm (2.9" to 6.2") Adjustable
Stitching Wire	Standard : No. 25 (0.5 mm) (0.020")
	Option : No. 28 (0.4 mm) (0.016")
Production Speed	Max. 3,660 booklets/hr. (A4-Finish)
	Max. 4,050 booklets/hr. (A5-Finish)
Voltage / Frequency	Single Phase 200 V 50 / 60 Hz
	Single Phase 220 V 60 Hz
	Single Phase 230 V 50 Hz
Power Consumption	450 W
Heat Output	SPF-20A : 1,170 kJ (280 kcal)
	SPF-20 : 620 kJ (150 kcal)
Motors	200 W x 1, 100 W x 1, 60 W x 1, 15 W x 1
Machine Weight	SPF-20A : 490 kg (1,080.5 lb)
	SPF-20 : 470 kg (1,036.4 lb)

FC-20 series Major Specifications

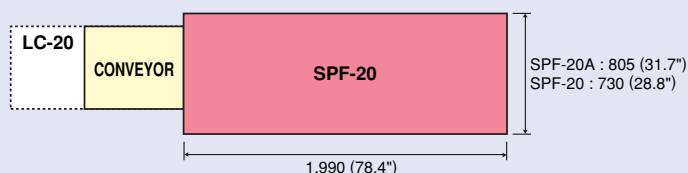
Book Size (Before Trim)	Max. 250(W) x 350(L) mm (9.8" x 13.7")
	Min. 90(W) x 120(L) mm (3.6" x 4.8")
Finish Size	Max. 250(W) x 350(L) mm (9.8" x 13.7")
	Min. 85(W) x 120(L) mm (3.4" x 4.8")
Trimming Length	Max. 20 mm (0.78")
Trimming Thickness	Max. 4 mm (0.15")
	50 sheets of 60 gsm
Production Speed	3,660 booklets/hr. (A4-Finish)
	4,050 booklets/hr. (A5-Finish)
Voltage / Frequency	Single Phase 200 V 50 / 60 Hz
	Single Phase 220 V 60 Hz
	Single Phase 230 V 50 Hz
Power Consumption	200 W
Heat Output	FC-20A : 690 kJ (160 kcal)
Motors	400 W x 1, 60 W x 1, 25 W x 1
Machine Weight	FC-20A : 240 kg (529.2 lb)
	FC-20 : 230 kg (507.2 lb)

HOF-30 Major Specifications

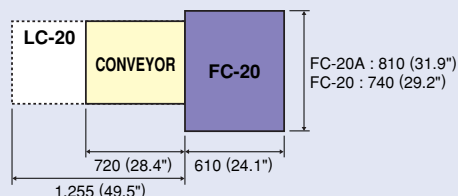
Sheet Size	HOF-30 Feed	Max. 350(W) x 500(L) mm (13.77" x 19.68")
	Bypass Mode	Min. 200(W) x 275(L) mm (7.88" x 10.83")
		Max. 350(W) x 500(L) mm (13.77" x 19.68")
		Min. 120(W) x 180(L) mm (4.73" x 7.09")
		(When connecting with StitchLiner5500, 140(W) x 206(L) mm (5.52" x 8.12") at minimum)
Sheet Weight Range	52 to 130 gsm Normal Paper / 73 to 160 gsm Coated Paper	
Feed Speed	Max. 27,000 sheets/hr. (Three Steps Adjustable)	
Sheet Pile Height on Feed Tray	Max. 430 mm (16.9")	
Available Collators	VAC-100 / VAC-60H	
Available Finishing Machines	StitchLiner5500 / SPF-20A / SPF-20	
Voltage / Frequency	Single Phase 200 / 220 / 230 V, 50 / 60 Hz	
Rated Current	Single Phase 200 V	8.3 / 8.0 A
	Single Phase 220 V	50 / 60 Hz
	Single Phase 230 V	8.8 / 8.5 A
Power Consumption	Single Phase 200 V	5.0 / 4.9 A
	Single Phase 220 V	1,200 W
	Single Phase 230 V	1,320 / 1,330 W
Heat Output	1,930 kJ (460 kcal)	
Machine Dimensions	1,460(W) x 630(D) x 945(H) mm (57.5" x 24.9" x 37.3")	
Machine Weight	180 kg (396 lb)	

Machine Dimensions Unit : mm (inch)

Height = 1,110 (43.8")



Height = 1,070 (42.2")



Manufactured by : Taiyo Seiki Co., Ltd.

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

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