

Horizon

StitchLiner5500/6000





Combining the efficiency and ease of operation of flat sheet collating with the productivity, versatility and quality of a saddle-stitching system.

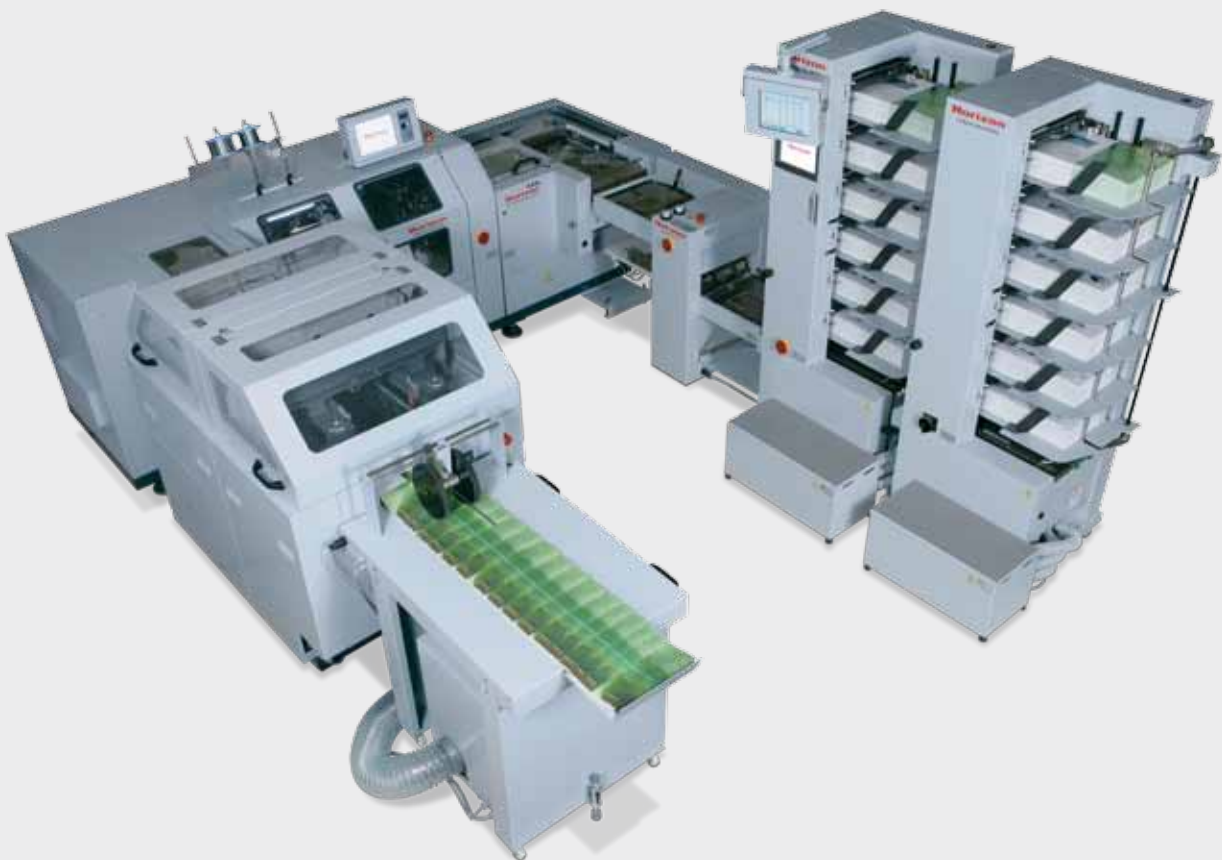
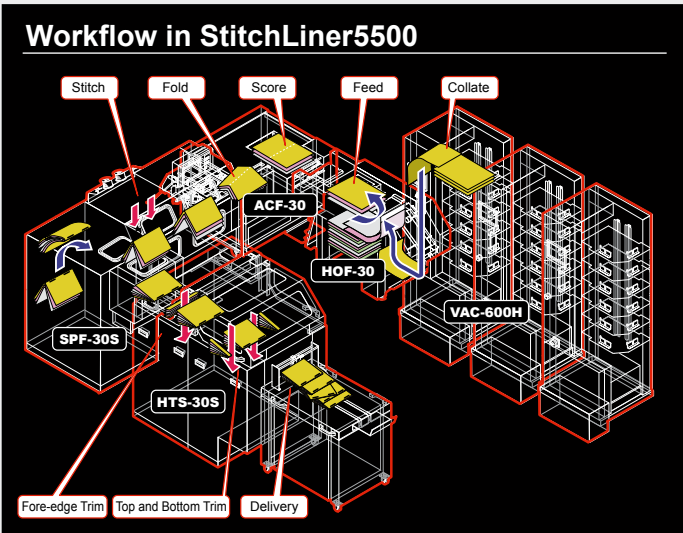
The Horizon StitchLiner5500/6000 is an innovative saddle-stitching system which incorporates flat sheet collating, scoring, folding, stitching and three-knife trimming in line.

The StitchLiner5500/6000 provides user-friendly operation, high productivity and versatility for on demand, production print, and trade bindery environments.

StitchLiner5500

At up to 5,500 booklets per hour with quick-changeover, the StitchLiner5500 is ideal for short, medium and long production runs.

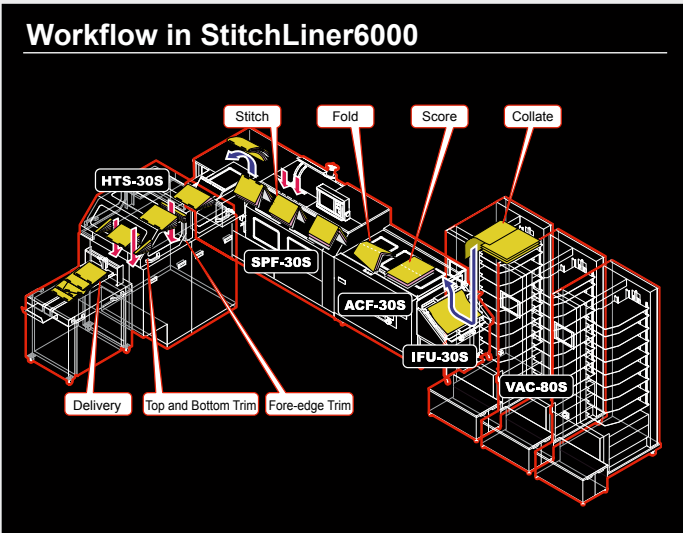
- User-friendly operation through the color touchscreen and accurate automation achieve short make-ready for quick turnaround.
- Folding is performed in-line to simplify the saddle-stitching workflow and improve operational efficiency.
- Various optional devices are available for both offset and digital printing.
- The convenient U-shaped layout allows the operator to monitor work in progress.



StitchLiner6000

At up to 6,000 booklets per hour, the StitchLiner6000 is ideally suited for landscape-oriented booklets.

- User-friendly operation through the color touchscreen and accurate automation achieve short make-ready for quick turnaround.
- Folding is performed in-line to simplify the saddle-stitching workflow and improve operational efficiency.
- Newly designed landscape feeding and straight saddle-stitching flow handles thinner paper stock and feeds larger, landscape-oriented sheets.
- Ergonomic L-shaped configuration for efficient operation and space saving.





Horizon's unique rotary suction feeding system operates effectively on a wide range of paper stocks.

Rotary Suction Feeding

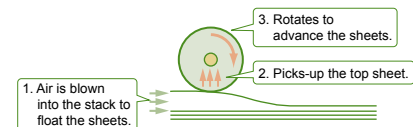
- Horizon's unique rotary suction feeding system can feed paper weights from 52 gsm tissue paper to 208 gsm cardboard.
- The feed wheel employs a special, highly durable rubber for totally mark-less feeding.
- Feed height sensors and air blowers allow a wide range of sheets to be fed.



What is rotary suction feeding?

Air is blown into the stack to float the sheets. The air rotor then picks-up the top sheet and rotates to advance the sheet.

Air-suction Feeding



For StitchLiner5500

VAC-600H

Maximum pile height is 130 mm (5.11").
Suitable for longer run production.

- Each bin has 130 mm (5.11") pile height capacity. Compared to the VAC-1000, the bin capacity is 2.4 times greater for longer run production.
- Advanced programming functions are available such as Double Cycle for non-stop operation and Block Feed for accurate bookletmaking.
- Optional image checking system (CCD-VAC) is available for higher quality control.
- The VAC-600H is expandable up to 6 towers, 36 feed bins.

- Bin Pile Height: Max. 130 mm (5.1")
- Sheet Size: Max. 350(W) x 500(L) mm (13.77" x 19.68")
Min. 120(W) x 148(L) mm (4.73" x 5.83")



For StitchLiner5500

VAC-1000

Stable collation for a wide variety of paper stocks.
Suitable for multiple page jobs.

- Advanced programming functions are available such as Double Cycle for non-stop operation and Block Feed for accurate bookletmaking.
- The VAC-1000 is expandable up to 6 towers, 60 feed bins.

- Bin Pile Height: Max. 55 mm (2.2")
- Sheet Size: Max. 350(W) x 500(L) mm (13.77" x 19.68")
Min. 148(W) x 148(L) mm (5.83" x 5.83")

* Optional support guide is capable of handling the 120 mm (4.73") width sheet at minimum.



For StitchLiner6000

VAC-80S

Equipped with 8 landscape feeding stations.
Maximum production speed is 6,000 booklets per hour.

- The VAC-80S is equipped with a sheet alignment mode to reduce jams in the ACF-30S and down time for uninterrupted operation.
- Advanced programming functions are available such as Double Cycle for non-stop operation and Block Feed for accurate bookletmaking.
- Optional image checking system (CCD-VAC80S) is available for higher quality control.
- The VAC-80S is expandable up to 6 towers, 48 feed bins.

- Bin Pile Height: Max. 80 mm (3.2")
- Sheet Size: Max. 350(W) x 500(L) mm (13.77" x 19.68")
Min. 140(W) x 199(L) mm (5.52" x 7.84")

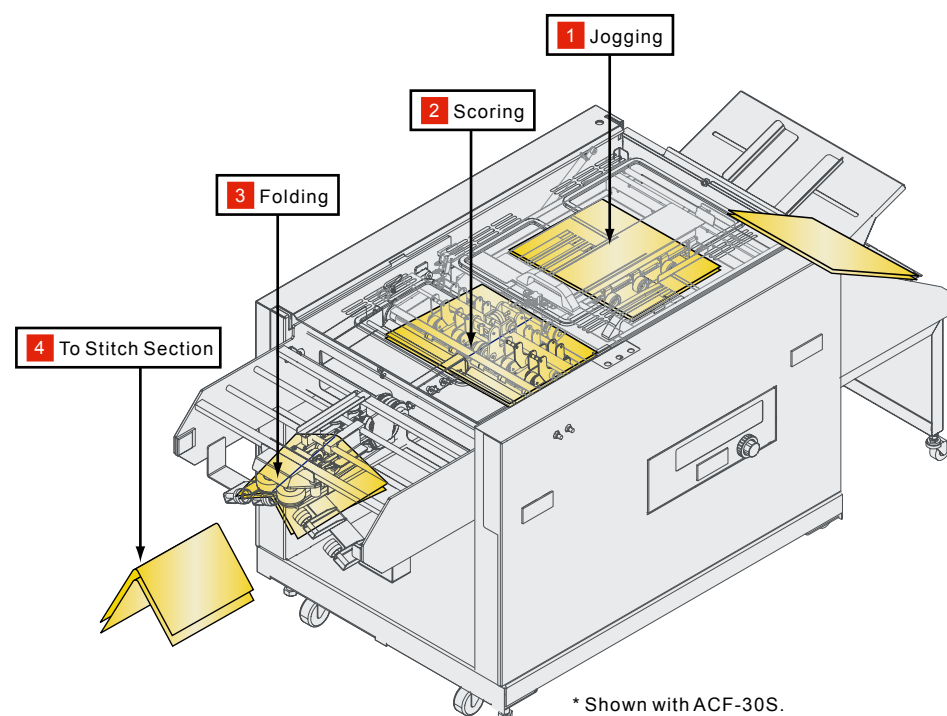


ACF-30/30S

Accumulator/Folder

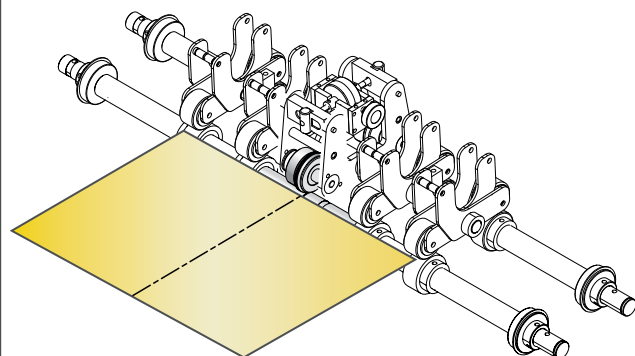
Accurate sheet registration, scoring and folding. In-line plow fold mechanism eliminates unnecessary folding steps.

Operation Process and Sheet Flow in ACF-30/30S



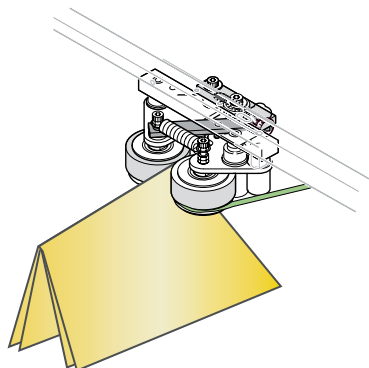
2 Scoring Section

Scoring with the upper and lower rollers.



3 Fold Section

Plow-folding with the belt and rollers.



For StitchLiner5500

ACF-30

Jog Section



The jog guides are adjusted automatically according to the sheet size input on the SPF-30S. The gathered sheets are accumulated, jogged, registered and transported at a right angle to the scoring section.

Fold Section



The scored sheets are folded reliably along the score line by a continuous series of forming rollers. The pressing rollers insure a sharp, tight fold.

Scoring Section



The jogged set is precisely scored on the center of the sheet. The number of sheets per folded section can be divided and then scored to insure a tight folded booklet.



For StitchLiner6000

ACF-30S

Jog Section / Scoring Section



Gathered sheets are jogged on all four sides and registered firmly. The jogged set is precisely scored in the scoring section to produce a tight folded booklet.

Fold Section



The scored sheets are folded reliably along the score line by a continuous series of forming rollers. The pressing rollers insure a sharp, tight fold.

Other Functions



The ACF-30S is equipped with a hand feed unit for off-line bookletmaking and a misfeed tray for non-stop operation.



SPF-30S

Saddle Stitcher

Quick changeover and professional quality...
Handles booklets up to 10 mm thick.

For StitchLiner5500/6000

Color Touchscreen



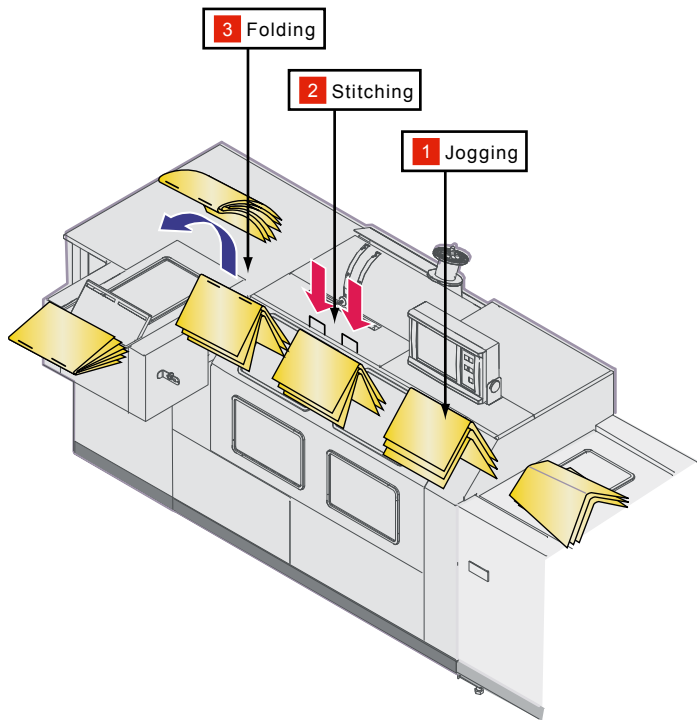
Each finishing station is automatically set in less than 30 seconds (A4 to A5 / 8.5" x 11" to 5.5" x 8.5") by simply inputting the sheet size and booklet size on the color touchscreen. Five steps of speed mode and jog delay

Stitch Section



Booklets up to 10 mm thick (50 sheets of normal 80 gsm paper) can be stitched. The folded sets are jogged from the head and foot, then centered on the saddle by the centering mechanism before the heavy-duty stitching heads fire to produce accurately stitched booklets. The stitch wire length is automatically adjusted according to the book thickness. Optional devices are available for a wide variety of applications such as 4-stitching and loop stitching.

Stitching Process and Sheet Flow in SPF-30S



HTS-30S

Three-knife Trimmer

Professional-quality three-knife trimming applies the final finish.
A center-cut option enables two-up production.

For StitchLiner5500/6000

Fore-edge Trim Section



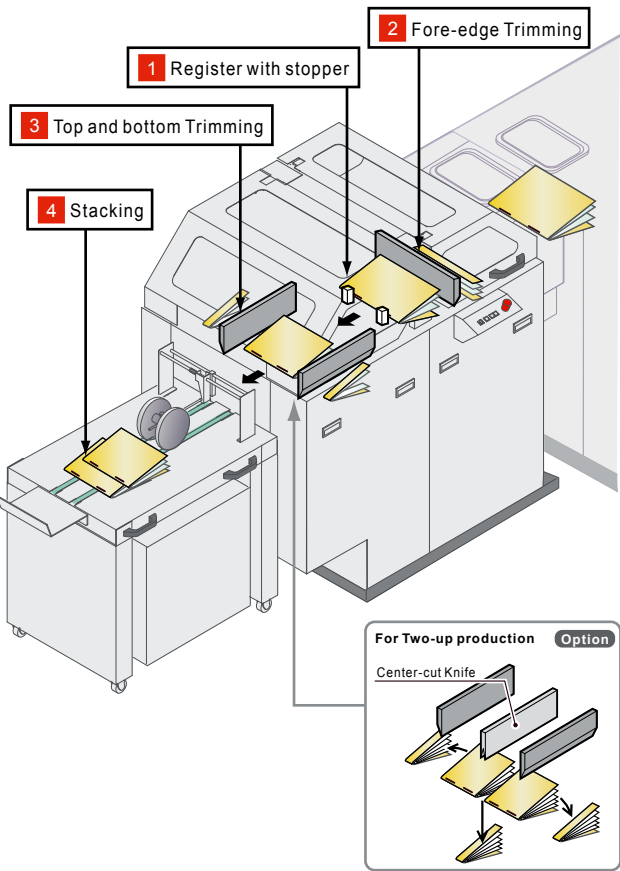
The servo-motor controlled feed mechanism provides for accurate booklet registration and fore-edge trimming. The guide is automatically adjusted according to the sheet size input on the touchscreen on the SPF-30S.

Top and Bottom Trim Section



The top and bottom of the booklet are trimmed accurately, and trimming waste is smoothly extracted from the trim box to a movable chute with a powerful air blower. An optional center knife device can be fitted for two-up booklet production.

Trimming Process and Sheet Flow in HTS-30S



Conveyor Section



Finished booklets are neatly delivered to the exit conveyor. An optional preset kicker PK-30 separates a batch of booklets at a predetermined count.



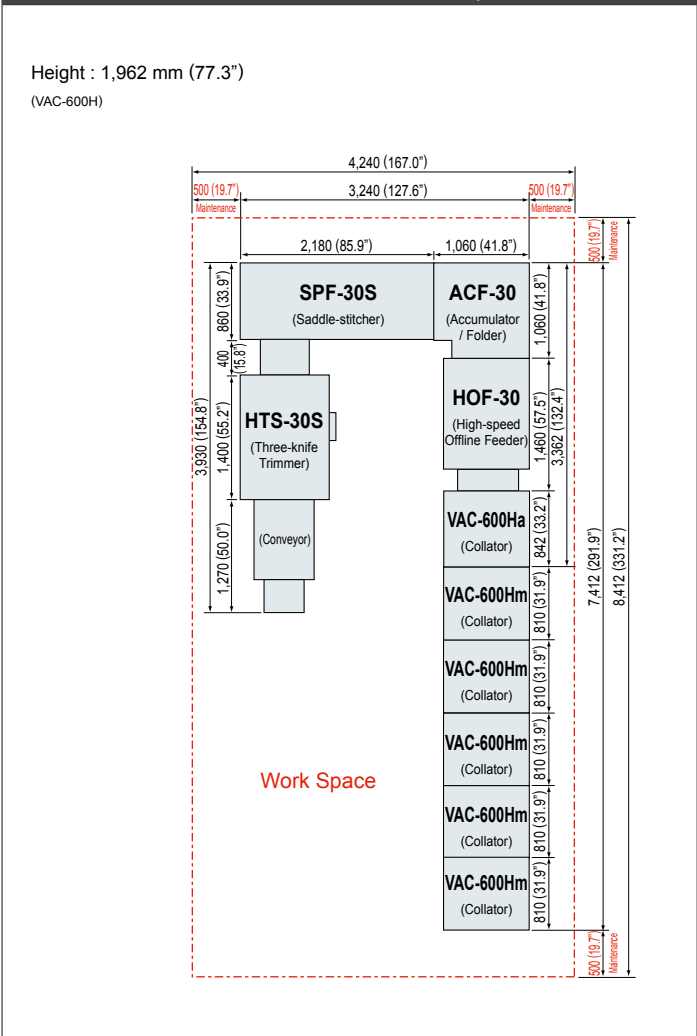
StitchLiner5500



StitchLiner6000



Machine Dimensions and Installation Space [Unit : mm (inch)]



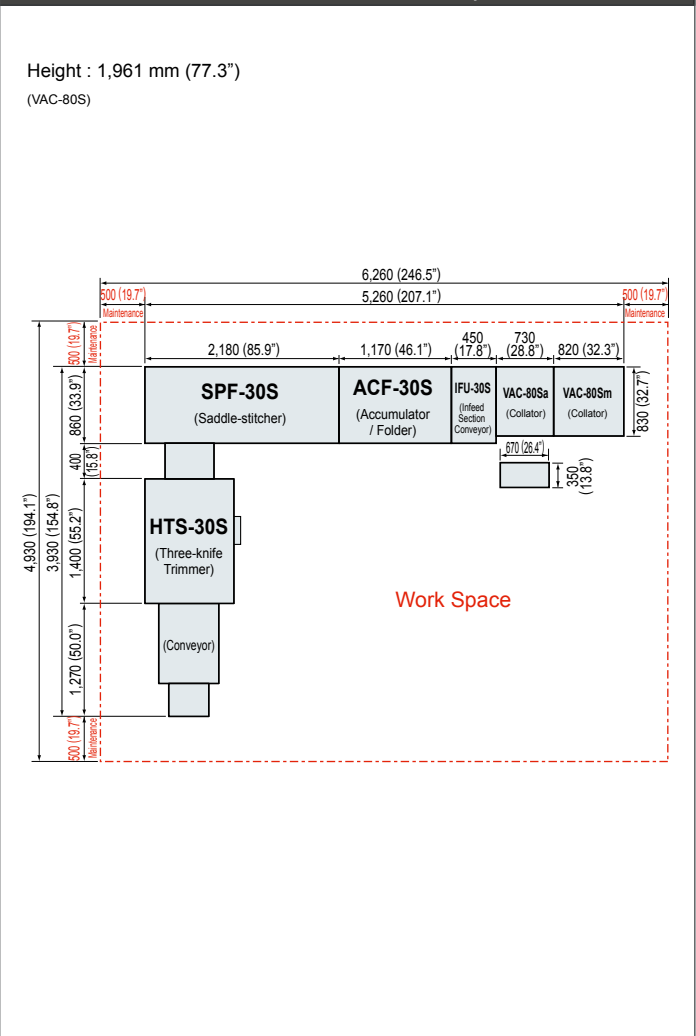
StitchLiner5500 Specifications

Sheet Size	Max. 350(W) x 500(L) mm (13.7" x 19.6") Min. 148(W) x 199(L) mm (5.9" x 7.9") (140 mm / 5.6" width sheet is available with the optional support guide.)
Sheet Weight Range	Normal Paper : 64 to 210 gsm Coated Paper : 80 to 210 gsm
Stitch Thickness	Max. 5 mm (0.20") (Booklet Thickness : 10 mm or 0.39") (about 50 sheets of 80 gsm or 22# normal) *1
Stitch Distance	66 to 150 mm (2.6" to 5.9"), adjusted by +/- 2 mm (0.08") Min. 55 mm (2.2"), with additional stitcher/Manual
Stitching Wire	#24 to #26 (0.6 mm to 0.5 mm) Option : #26 to #28 (0.5 mm to 0.4 mm) *2
Booklet Size (Before Trim) (Top-Bottom x Fore-edge)	Max. 350 x 250 mm (13.7" x 9.8") Min. 148 x 103 mm (5.9" x 4.1") *3
Booklet Size (After Trim) (Top-Bottom x Fore-edge)	Fore-edge
	95 to 230 mm (3.8" to 9.0") (Up to 85 mm / 3.3" depending on a condition) (Max. 240 mm / 9.4" with optional stopper)
	170 to 230 mm (6.7" to 9.0") (When 2-hole punch is performed) (Max. 240 mm / 9.4" with optional stopper)
	Top-Bottom
Trimming Width	144 to 340 mm (5.7" to 13.3") (When center base is installed) 120 to 152 mm (4.8" to 5.9") (When center base is removed) 186 to 340 mm (7.4" to 13.3") (When center base is installed and center-cut is not performed) 90 to 167mm (3.6" to 6.5") (A booklet size when center-cut is performed) 257 to 340 mm (10.2" to 13.3") (When 2-hole punch is performed)
	2 to 25 mm (0.08" to 1")
	Max. 5,000 booklets / hr. - Min. 2,900 booklets / hr. (Changed by 9 steps) *4
	3-Phase 200 V, 50 / 60 Hz 3-Phase 208 V, 50 / 60 Hz 3-Phase 220 V, 50 / 60 Hz 3-Phase 400 V, 50 / 60 Hz

*1 Limitation for stitch thickness: If the 6 mm (0.24") width center cut (option) is performed, Max. 3 mm (0.12") of booklet thickness. (When using the 8 mm or 0.31" width slitter, Max. 4 mm or 0.16" of booklet thickness.)
If the punch (option) is performed, Max. 3 mm (0.12") of booklet thickness.
When the sheet block thickness is 3 mm (0.12") or above, use thick wire (#24, 25 or 26).
*2 Optional stitching head is required.
*3 Depending on the sheet weight, sheet thickness, booklet thickness or grain direction, the booklet spine may be marked by the transport belts, or the booklet may not be arranged properly on the delivery conveyor. (In this case, the kicker may not be used.)
*4 The production speed is affected by operation mode and paper condition.

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

Machine Dimensions and Installation Space [Unit : mm (inch)]



StitchLiner6000 Specifications

Sheet Size	Max. 350(W) x 500(L) mm (13.7" x 19.6") Min. 140(W) x 199(L) mm (5.6" x 7.9")
Sheet Weight Range	Normal Paper : 53 to 210 gsm Coated Paper : 74 to 210 gsm
Stitch Thickness	Max. 5 mm (0.20") (Booklet Thickness 10 mm or 0.39") (about 50 sheets of 80 gsm or 22# normal) *1 Loop Stitch : Max. 3 mm (0.12") (Booklet Thickness 6 mm or 0.24")
Stitch Distance	66 to 150 mm (2.6" to 5.9"), adjusted by +/- 2 mm (0.08") Min. 55 mm (2.2"), with additional stitcher/Manual
Stitching Wire	#24 to #26 (0.6 mm to 0.5 mm) Option : #26 to #28 (0.5 mm to 0.4 mm) *2
Booklet Size (Before Trim) (Top-Bottom x Fore-edge)	Max. 350 x 250 mm (13.7" x 9.8") Min. 140 x 103 mm (5.6" x 4.1") *3
Booklet Size (After Trim) (Top-Bottom x Fore-edge)	Fore-edge
	95 to 230 mm (3.8" to 9.0") (Up to 85 mm / 3.3" depending on a condition) (Max. 240 mm / 9.4" with optional stopper)
	170 to 230 mm (6.7" to 9.0") (When 2-hole punch is performed) (Max. 240 mm / 9.4" with optional stopper)
	Top-Bottom
Trimming Width	144 to 340 mm (5.7" to 13.3") (When center base is installed) 120 to 152 mm (4.8" to 5.9") (When center base is removed) 186 to 340 mm (7.4" to 13.3") (When center base is installed and center-cut is not performed) 90 to 167mm (3.6" to 6.5") (A booklet size when center-cut is performed) 257 to 340 mm (10.2" to 13.3") (When 2-hole punch is performed)
	2 to 25 mm (0.08" to 1")
	Max. 6,000 booklets / hr. - Min. 2,900 booklets / hr. (Changed in 11 steps) *4
	3-Phase 200 V, 50 / 60 Hz 3-Phase 208 V, 50 / 60 Hz 3-Phase 220 V, 50 / 60 Hz 3-Phase 400 V, 50 / 60 Hz

*1 Limitation for stitch thickness: If the 6 mm (0.24") width center cut (option) is performed, Max. 3 mm (0.12") of booklet thickness. (When using the 8 mm or 0.31" width slitter, Max. 4 mm or 0.16" of booklet thickness.)
If the punch (option) is performed, Max. 3 mm (0.12") of booklet thickness.
When the sheet block thickness is 3 mm (0.12") or above, use thick wire (#24, 25 or 26).
*2 Optional stitching head is required.
*3 Depending on the sheet weight, sheet thickness, booklet thickness or grain direction, the booklet spine may be marked by the transport belts, or the booklet may not be arranged properly on the delivery conveyor. (In this case, the kicker may not be used.)
*4 The production speed is affected by unit selection, job settings and paper condition.

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

For StitchLiner5500

High-speed Offline Feeder HOF-20 / HOF-30

Near-Line Solution for digital printing

- HOF-20 - Features a built-in deep pile cover feed station
- HOF-30 - Can be connected to the VAC-1000/600H collators

High Speed
The system feeds at a speed of 27,000 sheets per hour, using Horizon's patented rotary feeding system.

High Pile
Maximum pile height is 430 mm (16.9") on the sheet feed tray and 130 mm (5.1") on the cover feed tray (HOF-20 only). For maximum efficiency, 2 sets of trays for sheet feeding are provided as standard equipment, so one set is always available for pre-loading.

Dynamic
The HOF-20/30 has the capability to handle variable data applications. A mark sensor enables the feeder to handle variable sheet count documents with integrity and verification.

*The HOF-20/30 cannot be connected to the VAC-80S.



For StitchLiner5500/6000

Paper Inserter IM-30

Inline sheet inserter for efficient booklet production

The IM-30 can insert single sheets, post cards, and folded sheets into a booklet stitched on the StitchLiner.

Labor-savings
Sheet insertion can be performed in-line with the StitchLiner with minimal operator involvement.

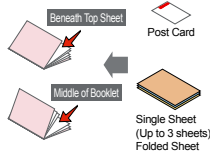
High Productivity
The IM-30 can insert a sheet at the maximum production speed of 4,000 booklets per hour with the StitchLiner connected. Faulty set eject function is employed for non-stop operation even when a feed error occurs.

User Friendliness
Intuitive touchscreen control and quality checking systems increase production efficiency with minimal errors.

Quality checking system includes: Feed section error sensor, Separation error sensor, Booklet jam sensor.

Wide Variety of Inserting Applications

Increase production capabilities with a wide range of inserting applications. Up to three sheets can be inserted into the middle of a booklet or beneath the top sheet.



- IM-30 Option IM-SD**
- The ultrasonic sensor detects that only one top sheet turns over consistently.

For StitchLiner5500

Bypass Stacker ST-40

Simple and Quick Changeover

User Friendliness
Bookletmaking and stacking can be selected by the switch on the ST-40.

High Speed
Errored sets are delivered to the built-in reject tray for non-stop operation. Collated sets delivered on the pallet are jogged for superior stack quality.

*The ST-40 cannot be connected to the VAC-80S.



ST-40

Other Options

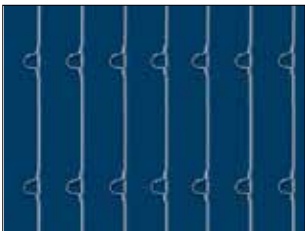
Stitching Head



Standard stitcher head (#24 to #26 - thickness: 0.6 mm to 0.5 mm) and optional stitcher head (#26 to #28 - thickness: 0.5 mm to 0.4 mm) are available. Additional stitcher heads are available for up to 4 stitches per booklet with mounting block B-30S.

* 3 stitches are available as factory option with mounting block B-30C.

Loop Stitching Kit



An optional loop stitching kit can be fitted to the standard stitcher heads to meet varying customer needs.

Hole Punch Device HP-05 / HP-06



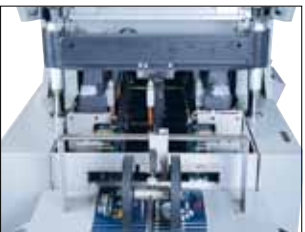
5 mm (HP-05) or 6 mm (HP-06) hole punch device provides 2 punch holes for A4 booklet. Precise hole punching is performed in-line for efficient production.

6-page Fold Program SLRom6P StitchLiner5500 only



6-page fold sheet can be inserted to a book with simple operation. 6-page fold sheet can be collated wherever in the booklet by the combination of 6-page fold and block feed program.

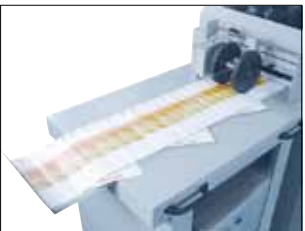
Center-Cut Device CC-06 / 1/4 / 08 / 10 / 12



Two-up production utilizing the center knives.
CC-06: 6 mm (0.24") (Max. book thickness: 3 mm / 0.12")
CC-1/4: 6.35 mm (0.25") (Max. book thickness: 3 mm / 0.12")
CC-08: 8 mm (0.31") (Max. book thickness: 4 mm / 0.16")
Special Order
CC-10: 10 mm (0.39") (Max. book thickness: 5 mm / 0.20")
CC-12: 12 mm (0.47") (Max. book thickness: 6 mm / 0.24")

* Max. book thickness varies depending on booklet size and paper condition.

Preset Kicker PK-30



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

Thickness Detector HTS-TD



The HTS-TD is installed at fore-edge trimming section and checks the thickness of each booklet. In case of missing section or double sections, system stops for maximum quality control.

Cutting Waste Extractor TB-30



Powerfully extracts trim waste from the three-knife trimmer HTS-30S for longer run operation.

think intelligent automation.

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Horizon

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