Horizon

STITCHING

iCE STITCHLINER Mark V

Next Generation In-line Saddle-Stitcher

iCE Series

i = Intelligence, Integration, Interaction
C = Connection
E = Efficiency
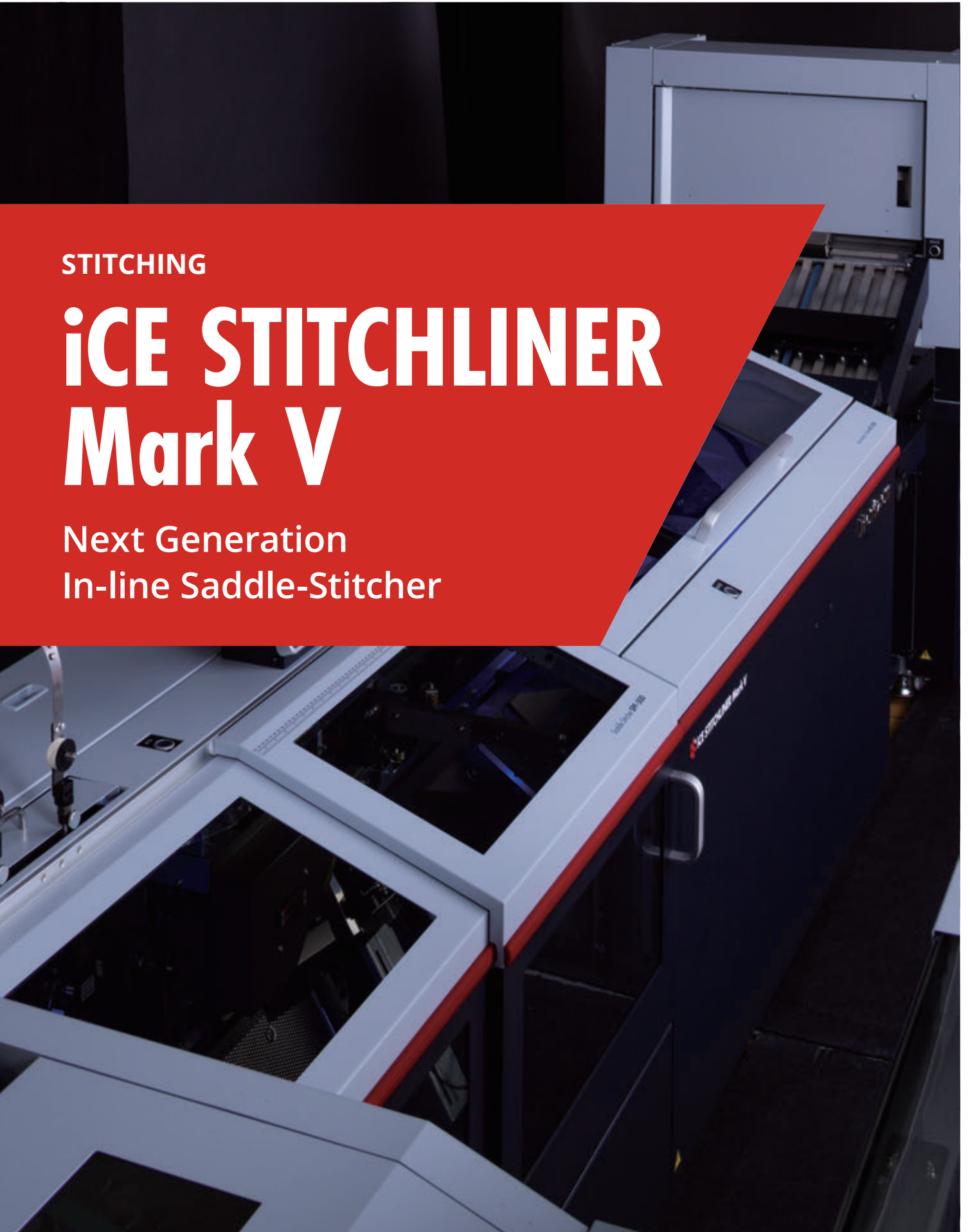
All Connected...
Optimize the finishing process with automation and workflow.

The iCE series is a new product line-up which is designed to provide added value to our customers.
A new operator interface for a more intuitive operation, and advanced automation to provide increased efficiency and productivity. In addition, connecting with an iCE LiNK workflow system provides an advanced and totally connected work environment.

HIGH QUALITY ROLL-TO-BOOKLET SOLUTION.

Next generation roll-to-booklet solution offers operation friendlessness and production efficiency.

BENEFITS

FULLY-AUTOMATED SETTINGS
User-friendly operation through the color touch screen and fully-automated setup enable any operator to produce consistent, high quality booklets with efficiency and high productivity.

HIGH PRODUCTIVITY
Up to 6,000 high quality booklets can be produced per hour while maintaining the speed of unwinder. Non-stop and stable production is achieved on a wide variety of substrates and formats including booklets with thin sheets and flap covers.

VARIABLE THICKNESS PRODUCTION
True end to end automation for variable thickness production. Variable stitch length and balance adjustment combined with variable thickness transport adjustment through the trimmer.

FLEXIBLE SHEET INSERTION
Optional cover feeder CF-50D enables flexible insertion of various substrates and formats of folded and cut sheets. The scoring feature provides high quality scoring on covers to the covers for tighter folding quality.

STATUS RECOGNITION
The LED lights in the iCE STITCHLINR Mark V indicate the operational status by switching colors to identify the system status at a glance. The color of the lights can be chosen from the touch panel.

MANAGE YOUR BINDERY WITH HORIZON'S BINDERY CONTROL SYSTEM
The iCE Series can be enhanced with automated workflow from upstream to postpress with iCE LiNK, which uses cloud technology, Horizon's next generation bindery control system.

iCE STITCHLINER

Scan the QR code to watch the product video.

DETAILED PROCESS FEATURES.

Exclusive features for improved production and quality.

SPF-50D Saddle-Stitcher
Uniquely designed separation and stitching system achieves precise sheet accumulation and high quality stitching at high speed.

ACF-50D Accumulator and Folder
Newly designed sheet transport mechanism brings consistent and high folding quality for sharper and tighter booklets with improved accuracy.
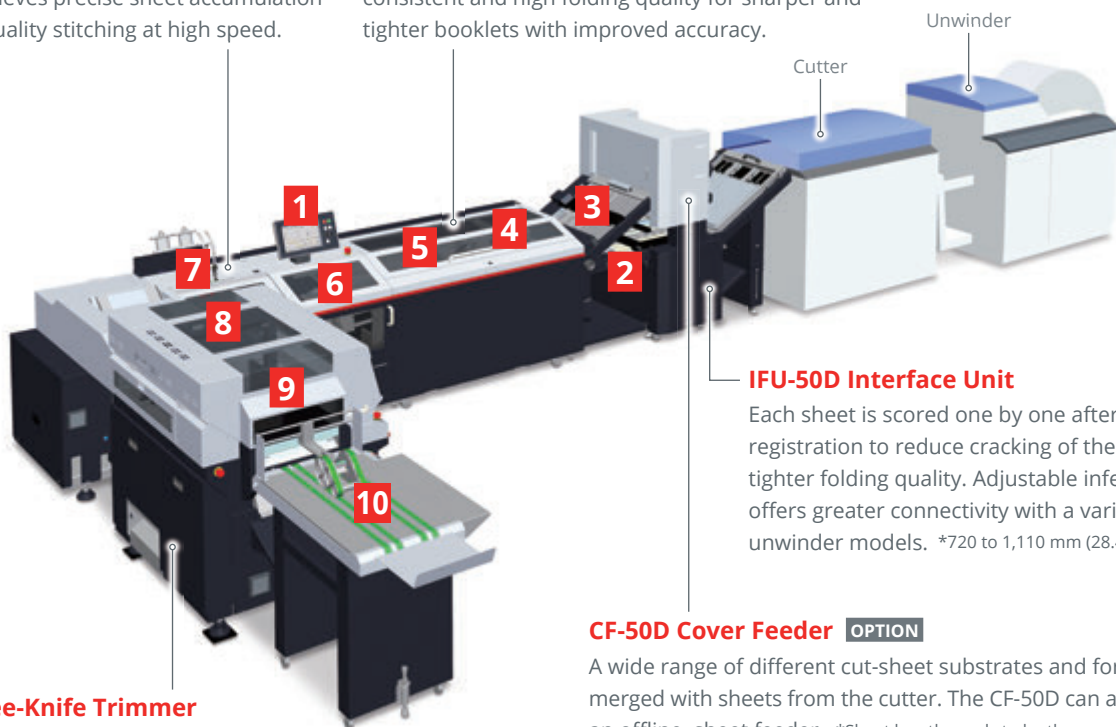
Unwinder

Cutter

IFU-50D Interface Unit
Each sheet is scored one by one after precise sheet registration to reduce cracking of the spine and tighter folding quality. Adjustable infeed height* offers greater connectivity with a variety of cutter and unwinder models. *720 to 1,110 mm (28.4 to 43.7")

CF-50D Cover Feeder OPTION
A wide range of different cut-sheet substrates and formats* can be merged with sheets from the cutter. The CF-50D can also function as an offline sheet feeder. *Sheet length needs to be the same with cut sheets.

HTS-50 Three-Knife Trimmer
All the settings are done automatically on the fly for variable thickness production. Uniquely designed 4 side jogging achieves accurate trimming quality with 1-up or 2-up production.

1 TOUCH PANEL DISPLAY

The 12.1 inch color touch-screen is icon-based for user-friendly operation. Each finishing station is automatically set by simply inputting the sheet size and booklet size. Up to 999 different jobs can be saved for instant job recall.

3 SCORING SECTION FOR COVERS

The optional cover feeder CF-50D allows for feeding of a wide range of substrates and formats without reducing production speed. Scoring feature on the cover feeder for high quality finish even with heavy cover substrates.

2 SCORING SECTION FOR ROLL-TO-SHEET

Automated sheet registration and assist air provide stable sheet transport and consistent scoring quality. Adjustable gap and scoring pressure allows for high quality scoring on different substrates.
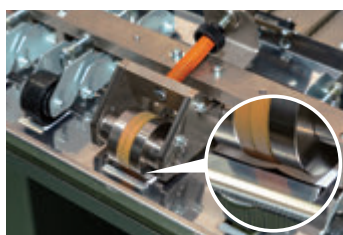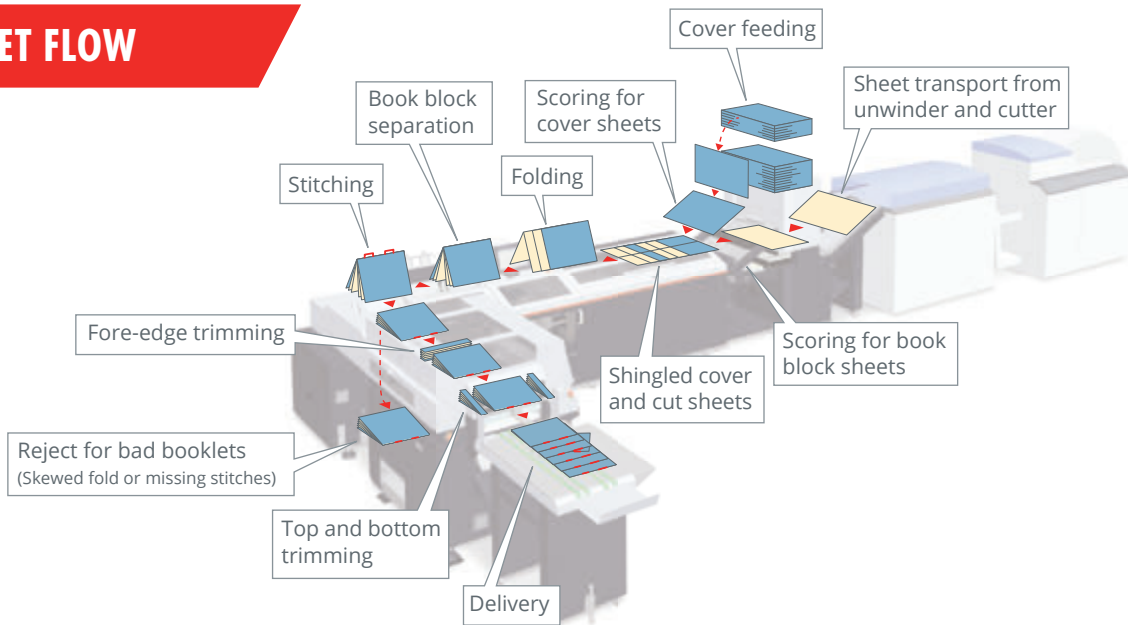
4 SHEET STREAM SECTION

Newly designed sheet transport mechanism achieves smooth sheet transport to the stitch section. Sheets are shingled (overlapping two thirds of each sheet) and blowing air assists for trouble-free transport even on thin sheets.

Cover feeding

Sheet transport from unwinder and cutter

Book block separation

Scoring for cover sheets

Folding

Stitching

Fore-edge trimming

Scoring for book block sheets

Shingled cover and cut sheets

Reject for bad booklets
(Skewed fold or missing stitches)

Top and bottom trimming

Delivery

5 FOLDING SECTION

Uniquely designed sheet transport mechanism achieves consistent and sharp folding quality. Adjustable fold press rollers to apply correct pressure depending on the substrate for quality folding.

8 INFEED SECTION / FORE-EDGE TRIM SECTION

The servo-motor controlled transport system provides smooth booklet transport at high speeds even with lighter substrates and thinner booklets. The registration guides and trim size are automatically adjusted according to the sheet size and thickness.

6 ACCUMULATE SECTION

Newly designed accumulate mechanism continuously separates into a book block without slowing down upstream processing. Air assisted sheet transport for precise and stable separation.

9 TOP AND BOTTOM TRIM SECTION

Booklet is jogged on four sides for accurate and consistent trimming quality. Uniquely designed air assisted trim removal to drop the trim waste efficiently. Optional center-cut knives are available for 2 up production.
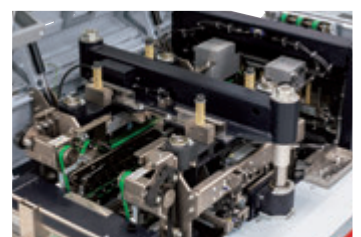
7 STITCHING SECTION

Booklets up to 10 mm thickness* can be stitched. Stitch position, stitch length, stitch balance, and stitch detection sensor position are all automated. Various stitching options, including loop stitching, four stitching and center stitching are available. Optional wire drive device WDD-SPF50 automatically adjusts stitch length according to the booklet thickness for variable thickness production with higher accuracy.
*About 50 sheets of Normal Paper 81.4 gsm
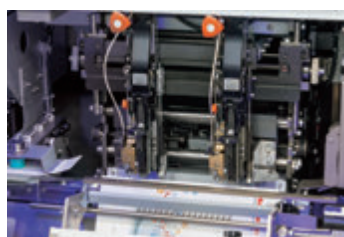
10 DELIVERY SECTION

Finished booklets are consistently delivered to the exit conveyor. Automated positioning of delivery roller and the expanded conveyor are available as an option. The optional PK-30 preset kicker separates a batch of booklets at a predetermined count.

COVER FEEDING OPTION.

High Performance Cover Feeder.

CF-50D COVER FEEDER

CF-50D

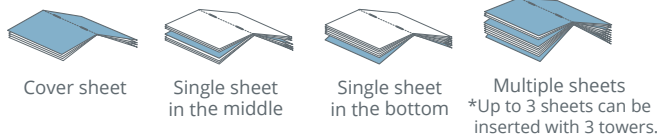*The optional WDD-SPF50 and TL-SPF50 are installed in the photo.

FLEXIBLE INSERTION

An intelligent cover feeder enables flexible insertion of sheets anywhere in the booklet. Up to three towers can be configured for three sheet insertion.

CF-50Db   CF-50Da

CF-50Da: Main unit
CF-50Db: Additional unit

■ Colored sheets are cover or insert sheets from the cover feeder.

Cover sheet   Single sheet in the middle   Single sheet in the bottom   Multiple sheets *Up to 3 sheets can be inserted with 3 towers.

EFFICIENT PRODUCTION

Top feed system enables double cycle operation for continuous production. The pile height of each feed table is 120mm/4.72" for longer run production to reduce downtime associated with sheet loading.

RELIABLE FEEDING

Split feed tables move individually for smooth feeding of flap covers (6-page folding sheets). The surface of the stack is adjusted automatically to keep it level for stable feeding.

Flap covers

Split tables on the tower
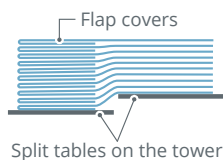
OFF-LINE FEEDER

The CF-50D functions as an off-line digital feeder capable of processing up to 15,000 (A4) sheets per hour*. Cover feeding and feeder mode can be switched between easily on the touch panel for quick turnaround for various jobs.

*Depends on sheet size, substrate weight and condition.

RELIABLE PRODUCTION

The code reader BR-CF50D* provides mis-loading and page order checking for quality control. Cover and book block matching can be achieved with the BR-IFU50D* code reader.
*Option
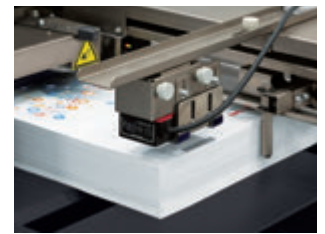
MIS-LOADING DETECTION

■ The BR-CF50D code reader verifies if the codes on each sheet are correctly detected and all the sheets are matched with the first code. This feature prevents the sheets from being loaded upside down or it prevents sheets with incorrect contents from being loaded on the table.

PAGE ORDER CHECKING *When used as off-line feeder

■ When feeding all the sheets from the CF-50D, the BR-CF50D barcode reader prevents missing pages or incorrect order in booklets by checking the feeding order.

■ The sheets can be separated by book title according to the page order and total sheet number specified by the code to allow secured continuous variable thickness production.

VARIABLE COVER FEEDING *Requires BR-IFU50D

■ Book block and cover matching is ensured by job ID on the book block and cover sheet. The designated cover is automatically fed from the feeder to merge with the book block.

ID: 001   ID: 001   A   ID: 002   B   ID: 003   C   ID: 001   a   b   c
ID: 001
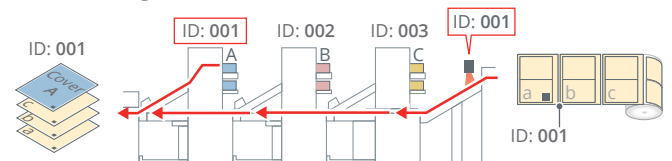
For the book block without cover, only the book block will be transported to the stitch section.

DESIGNATED INSERT POSITION *Requires BR-IFU50D

■ The sheet can be inserted at the designated position in the book block by the code on the sheet.

ADDITIONAL OPTIONS.

Performance Enhancing Options.

STITCHER HEAD

- The stitcher head is selectable from either of the standard stitcher heads (No.28 to No.24, thickness: 0.4 to 0.6 mm / 0.016" to 0.024") or the stitcher head for thick wire (No.26 to No.24, thickness: 0.5 to 0.6 mm / 0.02" through 0.024").
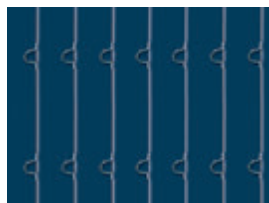

When B-40S installed

- Four stitching and three stitching are available as options.
  *The B-40C kit for three stitches or the B-40S kit for four stitches is required.

LOOP STITCHING KIT

- Loop stitching is available by installing the loop stitching kit to the stitcher head.
  *The stopper for the loop stitching is required for the trim section.

WDD-SPF50 / WDU-SPF50 WIRE DRIVE DEVICE

- The wire drive device adjusts the length of wires according to the thickness of booklet.
- WDU-50 is required for the three and four stitch option.
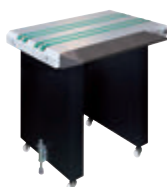 *Two sets of WDU-SPF50 are required for four stitching.

PK-30 PRESET KICKER

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

HTS-ECV40 DELIVERY CONVEYOR

- The 1m conveyor extends the booklet capacity of the conveyor and is suitable for longer production runs.

CC40-06/08/10/12 CENTER-CUT UNIT

- Two-up production is available by installing the center-cut unit.
- Four types of units; cutting width 6 mm / 0.24", 8 mm / 0.31", 10 mm / 0.39", and 12 mm / 0.47".

HP-40S + HP-05K/C05K/06K/C06K HOLE PUNCH UNIT

- High speed two-hole punching can be performed in-line for efficient production.
- HP-05K (5 mm hole), HP-06K (6 mm hole) and one-hole punch unit (for fore-edge) are available.
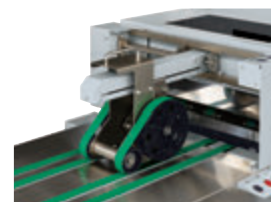

HTS-TD40 THICKNESS DETECTOR

- The HTS-TD40 detects the booklets with incorrect thickness and ejects them to the mis-feed tray.
  *The sensor turns off automatically for variable thickness production.

HTS-AR40 TRANSPORT ROLLERS

- The upper transport rollers of the delivery conveyor are automatically set to match the finished size of the booklet.

TB-30 TRIMMINGS BLOWER

- The TB-30 ejects the trim waste from HTS-50 by air.

OPTIONS.

Tracking Solutions for Quality Control.

TRACKING SYSTEM

The tracking system verifies the book ID, total sheet number, sequence of sheets, and book block and cover matching to provide a higher level of quality control. The tracking results are saved on the PC.

BASIC UNIT LIST

- BR-IFU50D (Code reader for IFU-50D)
- BVS-SL50D (Tracking system)

ADDITIONAL OPTIONS

- BVS-CF50Db (Verification device for CF-50D)
  *Additional tracking point for when two or three CF-50D are configured
  *1 unit required for each CF-50Db. (2 unit required when three CF-50D are configured.)
- BVS-ACF50D (Verification device for ACF-50D)
  *Additional tracking point for when CF-50D is configured
- BVS-HTS50 (Verification device for HTS-50)

PAGE VERIFICATION SYSTEM

The simple page verification is also available with two optional code readers. The system verifies the total sheet number, sequence of sheets and sheet separation to prevent missing pages and incorrect order. All the settings and errors can be checked on the touch panel.
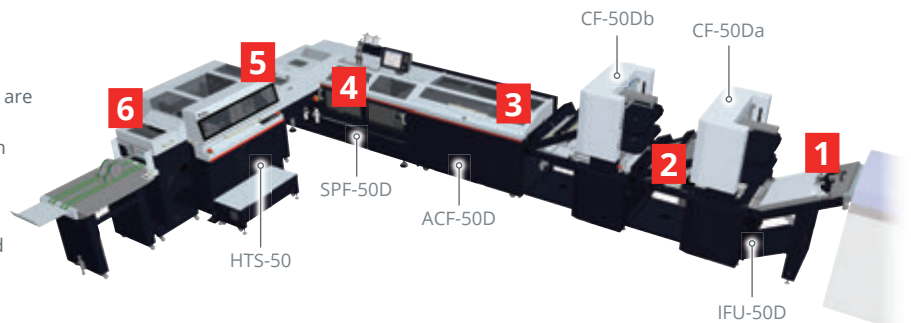
UNIT LIST

- BR-IFU50D (Code reader for IFU-50D)
- BR-SPF50 (Code reader for SPF-50D)

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1 BR-IFU50D TRACKING SYSTEM / PAGE VERIFICATION SYSTEM

Verifies the sequence of sheets and total number of sheets .

2 BVS-CF50DB SELECTION

Verifies the book ID on the cover sheet fed from the CF-50D and book block sheets to verify that each set is matched.

3 BVS-ACF50D SELECTION

Verifies the book ID on the cover sheet from the CF-50D and book block sheets to verify that each set is matched.
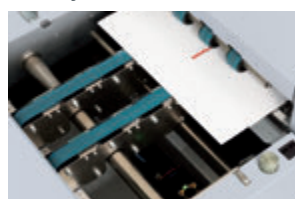
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4 BVS-SL50D / BR-SPF50 TRACKING SYSTEM / PAGE VERIFICATION SYSTEM

Checks if the sheets are separated at the correct timing by reading the code on the top sheet.

BVS-SL50D*

BR-SPF50*

5 BVS-SL50D TRACKING SYSTEM

Tracks booklets after stitching that are transported to the trimmer and ensures bad booklets are ejected.

6 BVS-HTS50 SELECTION

Verifies only good finished booklets are delivered to the conveyor and ensures bad booklets have been ejected.

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*1D and 2D codes are supported by BVS-SL50D code reader for tracking system and only 2D code is supported by BR-SPF50 sheet verification system.
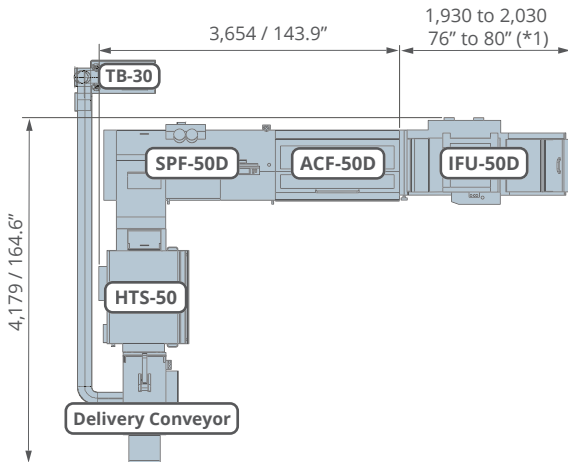
OPTIONS FOR THE ICE STITCHLINER MARK V

	NAME	MODEL	DESCRIPTIONS
Interface Unit / Cover Feeder	Ionizer	INZ-IFU50D	Ionizer for smooth sheet transportation without the trouble with static electricity.
	Code Reader	BR-IFU50D	Code reader to detect book block sheets at the IFU-50D.
	Code Reader	BR-CF50D	Two code readers (1 set) for each feed table of CF-50D to detect cover sheets.
	Verification Device for CF-50D	BVS-CF50Db	For tracking system: Additional verification device for the CF-50Db (additional cover feeder). *Two pcs required for two CF-50Db.
Fold section	Verification Device for ACF-50D	BVS-ACF50D	For tracking system: Additional verification device for the ACF-50D when the CF-50D is configured.
	Press Roller 70	-	Urethane fold roller
Stitch Section	Stitcher Head Optional Parts for Four Stitching	B-40S	A set of two stitcher head attaching parts (Stitcher head and clincher are not included.)
	Stitcher Head Optional Parts for Center Stitching	B-40C	Stitcher head attaching parts (Stitcher head and clincher are not included.)
	Centering Device	CD-30S	For four stitching and center stitching
	Clincher	-	For four stitching (B-40S) and center stitching (B-40C)
	52/8S Stitcher Head (for wire No.24 through 28)	-	Standard stitcher head: Wire thickness 0.4 through 0.6 mm
	52/8S Stitcher Head (for fine wire No.26 though 30)	-	Stitcher head for fine wire: Wire thickness 0.4 through 0.5 mm
	52/8S Head Parts for thick wire	-	For one stitcher head: Wire thickness 0.4 through 0.6 mm
	52/8S Loop Stitching Parts	-	For one stitcher head: Wire thickness 0.5 mm through 0.6 mm The stoppers for loop stitching are also required for the HTS-50.
	43/6S Stitcher Head (for fine wire No.26 through 28)	-	For fine wire: Thickness 0.4 through 0.5 mm
	43/6S Stitcher Head (for thick wire No.24 through 26)	-	For thick wire: Thickness 0.5 through 0.6 mm
	43/6S Head Parts for Thick Wire	-	For one stitcher head
	43/6S Loop Stitching Parts	-	For one stitcher head: Wire thickness 0.5 through 0.6 mm The stoppers for loop stitching are also required for the HTS-50.
	Wire No.24	-	0.60 mm or 0.024"
	Wire No.25	-	0.55 mm or 0.022"
	Wire No.26	-	0.50 mm or 0.02" (Standard)
	Wire No.27	-	0.45 mm or 0.018"
	Wire No.28	-	0.40 mm or 0.016"
	Wire Drive Device	WDD-SPF50	Wire control device for automatic wire adjustment (For two stitching)
	Additional Wire Drive Unit	WDU-SPF50	Additional wire control unit for three or four stitching. (2 pcs required for four stitching)
	Code Reader	BR-SPF50	2D code reader for page verification
	Tracking System	BVS-SL50D	Software for tracking system and two code readers for stitching section and exit of the SPF-50D
	Pole Lamp	TL-SPF50	Status indicator light
Trim Section	Additional Stoppers for Top-Bottom Trim Section	-	For loop stitching (Three types of additional stoppers)
	Booklet Press Plate for Fore-edge Trim Section	CP40-FS	For small size booklets
	Booklet Press Plate for Top-bottom Trim Section	CP40-TS	For small size booklets
	Center-Cut Device (6 mm or 0.24" Width)	CC40-06	Cutting Width 6 mm or 0.24" (Maximum booklet thickness: 3 mm or 0.12")
	Center-Cut Device (8 mm or 0.31" Width)	CC40-08	Cutting Width 8 mm or 0.31" (Maximum booklet thickness: 4 mm or 0.16")
	Center-Cut Device (10 mm or 0.39" Width)	CC40-10	Cutting Width 10 mm or 0.39" (Maximum booklet thickness: 4 mm or 0.16")
	Center-Cut Device (12 mm or 0.47" Width)	CC40-12	Cutting Width 12 mm or 0.47" (Maximum booklet thickness: 4 mm or 0.16")
	Punch Base Unit	HP-40S	Common parts in the punch hole diameter 5 mm or 6 mm
	Punch Unit (5 mm or 0.197" hole)	HP-05K	For two holes: Punch hole diameter 5 mm or 0.197"
		HP-C05K	For one center hole: Punch hole diameter 5 mm or 0.197"
	Punch Unit (6 mm or 0.236" hole)	HP-06K	For two holes: Punch hole diameter 6 mm or 0.236"
		HP-C06K	For one center hole: Punch hole diameter 6 mm or 0.236"
	Verification Device for HTS-50	BVS-HTS50	For tracking system: Additional verification device for the HTS-50 (exit)
	Thickness Detector	HTS-TD40	The HTS-TD40 detects the booklets with abnormal thickness and eject in the misfeed tray of the HTS-50.
	Preset Kicker	PK-30	For separating the booklets by preset number on the delivery conveyor
	Delivery Conveyor	HTS-AR40	The upper delivery roller is automatically set according to the finished booklet size.
	Delivery Conveyor	HTS-ECV40	Extension conveyor to stack large number of booklets.
	Trimmings Blower	TB-30	For ejecting the trims from the HTS-50 by air.

SPECIFICATIONS.

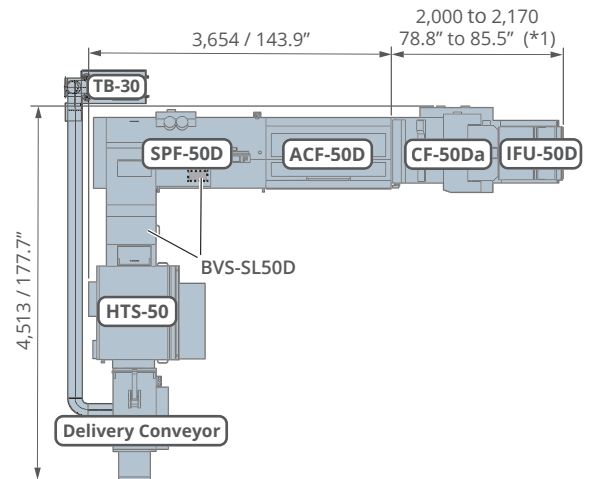## Machine Dimensions. (Unit: mm / inch)

iCE STITCHLINER Mark V
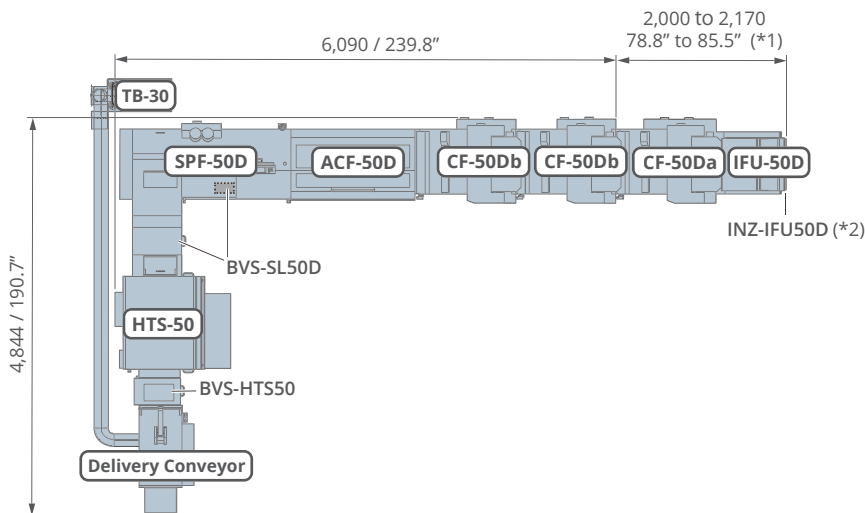
(Top View)

iCE STITCHLINER Mark V + CF-50D + BVS-SL50D

(Top View)

iCE STITCHLINER Mark V + CF-50D x 3 + BVS-SL50D
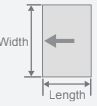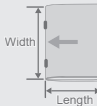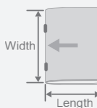
(Top View)

*1: The width and height depend on the infeed angle of IFU-50D.
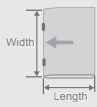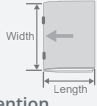*2: 70 mm / 2.76" is required for the installation of optional Ionizer INZ-IFU50D.

iCE STITCHLINER Mark V

Finishing Type	Saddle Stitch, Fold and Trim
Sheet Size	**Width x Length** Portrait Max. 508 x 356 mm or 20.000" x 14.015" Landscape Max. 610 x 267 mm or 24.015" x 10.510" Min. 194 x 140 mm or 7.640" x 5.515" *There is a limit if the top-bottom size is smaller against the fore-edge size. A3, JIS B4, A4, JIS B5, A5 11.25" x 17.25", 11" x 17", 10.25"x 9.75", 8.75" x 11.25", 8.5" x 11", 5.5" x 9.75"
Untrimmed Booklet Size	**Width x Length** Portrait Max. 356 x 254 mm or 14.015" x 10.000" Landscape Max. 267 x 305 mm or 10.510" x 12.005" *Max. 356 x 305 mm or 14.015" x 12.005" can be finished depending on substrate weight and condition. Min. 140 x 97 mm or 5.515" x 3.820" (Note 1) Note 1: 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 preset kicker PK-30 may not be used.) A4, A4E, JIS B5, A5, JIS B6, A6 11" x 8.5", 8.5" x 11", 8.5" x 7", 8.5" x 5.5", 4.75" x 4.75" 2-up, 4.75" x 4.75"
Finished Booklet Size	Portrait Max. 352 x 252 mm or 13.855" x 9.920" Landscape Max. 263 x 303 mm or 10.350" x 11.925" *Max. 352 x 303 mm or 13.855" x 11.925" can be finished depending on substrate weight and condition. Min. 120 (Note 2) x 85 mm or 4.725" x 3.350" Note 2: Minimum width when each of the center guides is installed in the trim section: Small Center Guide: 147 mm or 5.790" Medium Center Guide: 204 mm or 8.035" Large Center Guide: 279 mm or 10.985"
Sheet Weight Range	**Roll Paper** Normal Paper: 52.3 to 209 gsm Coated Paper: 73.3 to 209 gsm Allowable Curl: +/- 8 mm or +/-0.31" **Cover Sheet** Normal Paper: 52.3 to 350 gsm Coated Paper: 73.3 to 350 gsm *These may be limited depending on the sheet size, sheet weight range and grain direction of the sheet.
Stitch Thickness	Max. 5 mm or 0.195" (About 50 sheets of Normal Paper 81.4 gsm)
Stitch Distance	**Two Stitches** With Centering Device: 64 to 176 mm or 2.520" 6.925" Without Centering Device: 53 to 176 mm or 2.090" 6.925" **Three Stitches (Requires the B-40C kit)** - When using the standard head blocks and center block With Centering Device Stitch Distance: Right and Left 64 to 88 mm or 2.520" to 3.460" Overall 128 to 176 mm or 5.040" to 6.925" Without Centering Device Stitch Distance: Right and Left 53 to 88 mm or 2.090" to 3.460" Overall 106 to 176 mm or 4.175" to 6.925" - In case of using the outside head blocks for four stitcher heads and center block Stitch Distance: Right and Left 106 to 120 mm or 4.175" to 4.720" Overall 212 to 240 mm or 8.350" to 9.445" (Independent of centering device) Attention: When doing three stitches, this cannot be done in the range where the overall measurement is 176.1 to 211.9 mm or 6.935" to 8.340". **Four Stitches (Requires the B-40S kit)** - With Centering Device Stitch Distance: Inside 64 to 112 mm or 2.520" to 4.405" Right and Left 64 to 88 mm or 2.520" to 3.460" Overall 192 to 240 mm or 7.560" to 9.445" - Without Centering Device Stitch Distance: Inside 53 to 134 mm or 2.090" to 5.275" Right and Left 53 to 93.5 mm or 2.090" to 3.680" Overall 159 to 240 mm or 6.260" to 9.445"
Stitch Heads	Standard Equipment: Two stitcher heads Option: Additional stitcher heads for three or four stitches (The B-40C kit for three stitches or the B-40S kit for four stitches is required.)
Stitching Wire	Standard: 0.5 mm (No.26) Wire from of 0.4 to 0.6 mm in diameter can be installed on the standard stitcher heads.
Trim Width	Fore Edge: Max. 25.4 mm or 1.000", Min. 2 mm or 0.080" Top and Bottom: Max. 25.4 mm or 1.000", Min. 2 mm or 0.080"
Trim Thickness	Max. 10 mm or 0.390" *This may be limited depending on sheet weight range and the number of sheets.

*The machine design and specifications are subject to change without any notice.
*Specifications may vary depending on the job, paper quality, environmental influences, and various other factors. Please do a test run before starting production.

Production Speed	Max. 6,000 booklets per hour (From A3 to A4 Portrait) Max. 5,300 booklets per hour (A4 Landscape) *Web speed will be limited depending on the cutting size. Less than 150 mm or 5.905": 150 meters or 492 feet per minute or below Cutting Size 150 to less than 170 mm or 5.905" to less than 6.695": Web Speed 180 meters or 590 feet per minute or below Cutting Size 170 to less than 180 mm or 6.695" to less than 7.090": Web Speed 190 meters or 623 feet per minute or below Cutting Size 180 to less than 200 mm or 7.090" to less than 7.875": Web Speed 200 meters or 656 feet per minute or below Cutting Size 200 to less than 220 mm or 7.875" to less than 8.665": Web Speed 210 meters or 688 feet per minute or below Cutting Size 220 to less than 240 mm or 8.665" to less than 9.450": Web Speed 220 meters or 721 feet per minute or below Cutting Size 240 to less than 260 mm or 9.450" to less than 10.240": Web Speed 230 meters or 754 feet per minute or below Cutting Size from 260 to 10.240": 240 meters or 787 feet per minute or below *Specifications might be lower than listed below in the following cases: using an optional code reader, bottom feeding from the CF-50D, using functions of pause between booklets and pause between sheets. Reference for Limitation in case that the number of sheets is 12. Bottom Feeding (A3): Web Speed 116 meter per minute Bottom Feeding (A4): Web Speed 97 meter per minute Pause between Booklets (A3): 55 meter per minute Pause between Booklets (A4): 45 meter per minute Pause between Sheets (A3): 29 meter per minute Pause between Sheets (A4): 20 meter per minute
Cover Feeder CF-50D (Optional)	Number of Table: 2 Sheet Stack Height: Max. 120 mm or 4.72" *This will be limited depending on the feeding settings such as feed table lowering time or feed height adjustment. *This will be limited when 6-page signatures or 8-page signatures are processed. Around 40 mm or 1.57" is recommended. Sheet Stack Weight: Max. 24 kg or 52.8 lb (total of front and rear) Number of Sheets to be Fed (Feeder Mode) Feeding A4 sheets: Max. 15,000 sheets per hour Feeding A3 sheets: Max. 12,000 sheets per hour *The feeding speed and the number of sheets to be fed will be limited depending on the sheet size, sheet weight range and sheet thickness.
Voltage/Frequency	3-phase 200-230 V, 50 / 60 Hz
Center Cut (Option) **Attention** The center-cut option cannot be selected under the following conditions: - If the optional punch is selected - If the center stitch is selected - If the top and bottom trim function is turned off	Gutter Width: 6 mm (0.240") / 8 mm (0.315") / 10 mm (0.395") / 12 mm (0.475") Booklet Thickness: 4 mm (0.155") or thinner, half of gutter width or less Booklet Size Before Cut: Width 190 to 356 mm or 7.485" 14.015" Length 85 to 220 mm or 3.350" 8.660" - **Four stitches - gutter width 6 mm or 0.235"** Booklet Size before Top and Bottom Trimming and after Fore-Edge Trimming: Width 214.5 to 356 mm or 8.445" to 14.015" Length 85 to 220 mm or 3.350" to 8.660" Finished Booklet Width: 100 to 173 mm or 3.940" to 6.810" - **Four stitches - gutter width 12 mm or 0.475"** Booklet Size before Top and Bottom Trimming and after Fore-Edge Trimming: Width 211.5 to 356 mm or 8.330" to 14.015" Length 85 to 220 mm or 3.350" to 8.660" Finished Booklet Width: 94 to 170 mm or 3.700" to 6.690" - Two stitches or without stitch - gutter width 6 mm or 0.235" Booklet Size before Top and Bottom Trimming and after Fore-Edge Trimming: Width 190 to 356 mm or 7.485" 14.015" Length 85 to 220 mm or 3.350" to 8.660" Finished Booklet Width: 90 to 173 mm or 3.545" to 6.810" - **Two stitches or without stitch - gutter width 12 mm or 0.475"** Booklet Size before Top and Bottom Trimming and after Fore-Edge Trimming: Width 196 to 356 mm or 7.720" 14.015" Length 85 to 220 mm or 3.350" to 8.660" Finished Booklet Width: 90 to 170 mm or 3.545" to 6.690"
Punch (Option) **Attention** The punch option cannot be selected under the following conditions: - If the center-cut is selected - If the top and bottom trim function is turned off	Hole Diameter: 5 mm or 0.197" / 6 mm or 0.236" Hole Position: Two Holes at 8 to 16 mm from spine, 80 mm pitch One Hole at 5 to 15 mm from fore edge, centered Booklet Thickness: 3 mm (0.115") or thinner, half of hole diameter or less Booklet Size Before Top and Bottom Trimming: Width 254 to 356 mm or 10.000" to 14.015" Length 85 to 220 mm or 3.350" to 8.660" Finished Booklet Width: 250 to 352 mm or 9.850" to 13.858

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