Horizon

HOF-400

High Speed Offline Feeder

Fast, Accurate and Flexible...

The perfect feeding solution

for Digital booklet production.

Horizon

Flexible System Configuration for both Digital and Offset Print Environments

StitchLiner5500

**How can you efficiently produce high quality booklets from both digital and offset print?**

As digital printing has become a leading print process, meeting the finishing requirements for both digital and offset print is the key for success.

The Horizon HOF-400 high speed offline feeder provides flexible system configurations such as cover feeding, sheet insert on, variable page count, bleed trimming and creasing for digital printing. The HOF-400 finishing system can also be connected with the finishing devices for the offset outputs to process both digital and offset print. Through one efficient system.

Features

1. **Finishing device for digital print -** Digitally printed sheets are fed reliably and with care from the HOF-400 to the saddle-stitching system. A standard mark sensor enables variable sheet count documents to be handled with integrity and verification.

2. **Finishing device for offset print -** a VAC series collator can be connected in line, for processing of conventional offset printed work.

3. **High Speed** - 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.

4. **User-friendly Operation** - Feature rich newly designed 7" color touch screen display for easy and intuitive operation.

5. **Various modular options** - 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.

6. **Flexible booklet making system selection** - The HOF-400 can be connected to the SPF-200A, SPF-200L, SPF-20A, SPF-20 or StitchLiner5500.

VAC series

ST-40

SA-40

CV-400

CF-400

HIF-400

AC-400

HOF-400
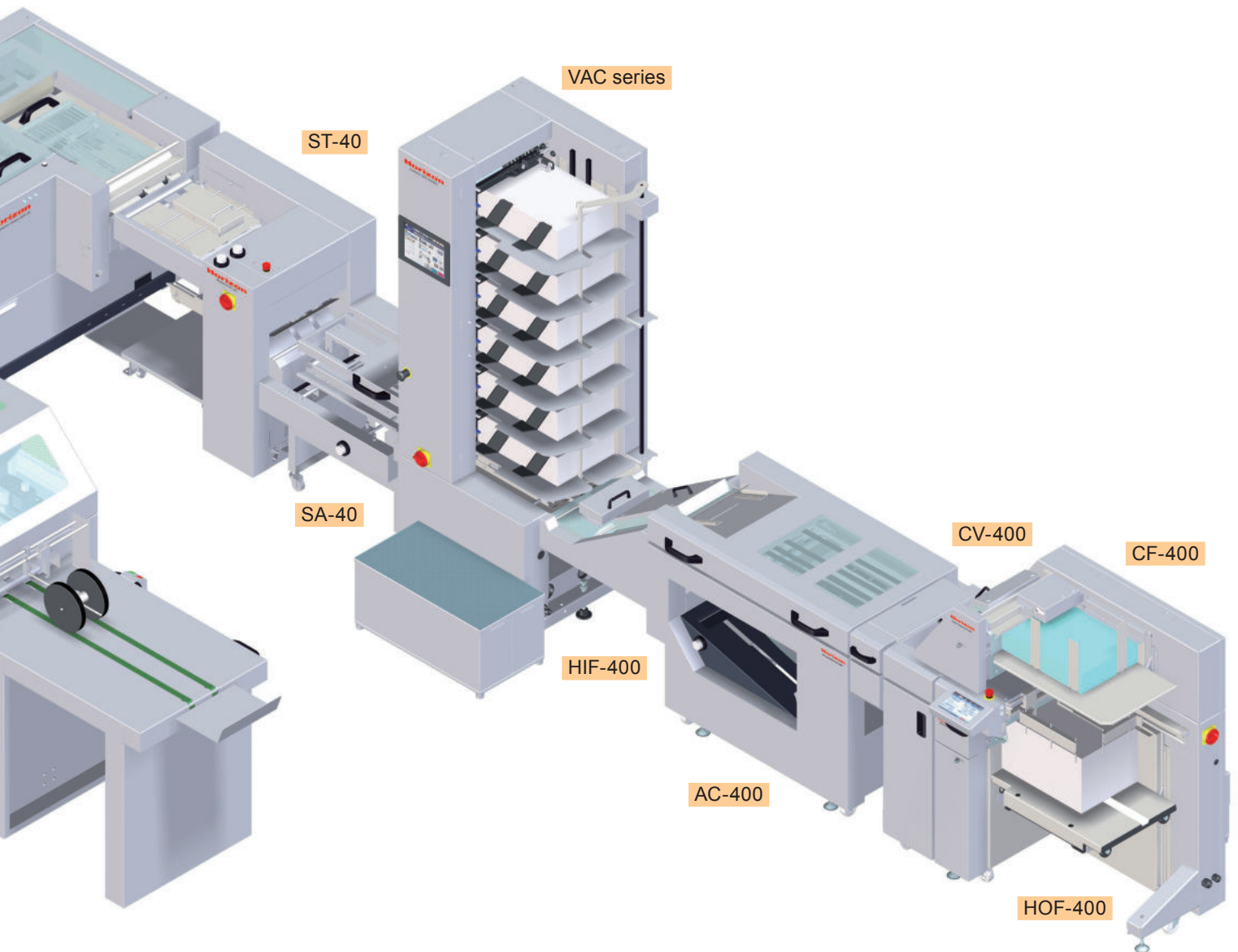
Sub Accumulator SA-40
The SA-40 temporarily accumulates sheets which are delivered from the collator, for improved jogging and throughput at the stitcher and the ST-40.

Bypass Stacker ST-40
The collated sheets are stacked on the ST-40. The sheets can also be delivered to the stitcher without being stacked on the ST-40.

Collator VAC series
Conventional flat sheet collator which is used for collation of offset printed work.

Hybrid Conveyor HIF-400
The HIF-400 connects the HOF-400 with the collator.

Barcode Verification System BVS-400
The BVS-400 reads a barcode printed on a sheet to verify page order.

Cover Feeder CF-400
Feeds cover sheets and also works as an inserter, merging sheets with those fed from the HOF-400.

High Speed Offline Feeder HOF-400
The HOF-400 feeds digitally printed sheets and transports the sheets to the next process.

Saddle-stitching System StitchLiner5500
The StitchLiner5500 produces booklets by flat sheet scoring, folding, stitching and three-knife trimming.
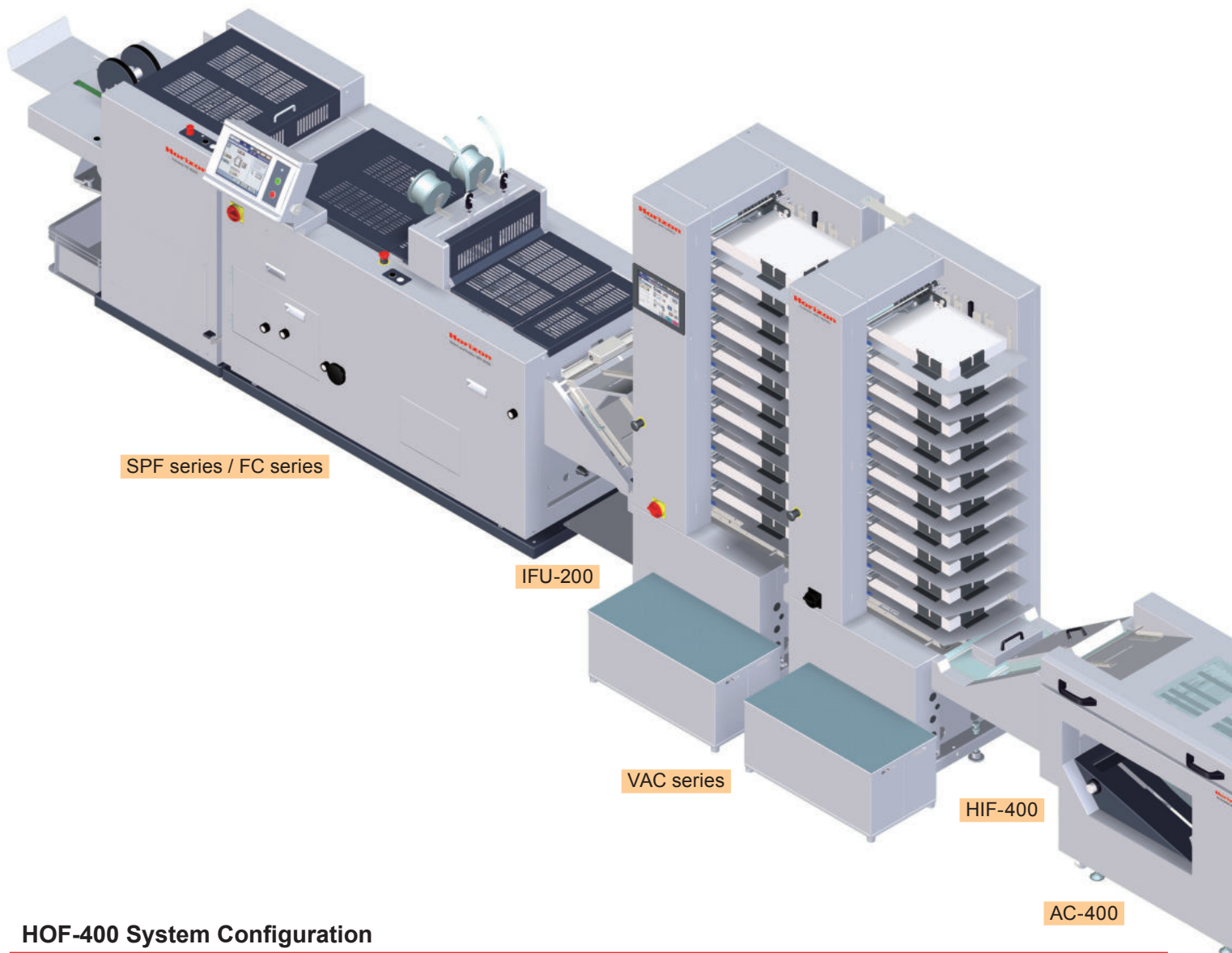
Accumulator AC-400
The AC-400 accumulates the sheets from the HOF-400 for higher productivity and accurate finishing quality.
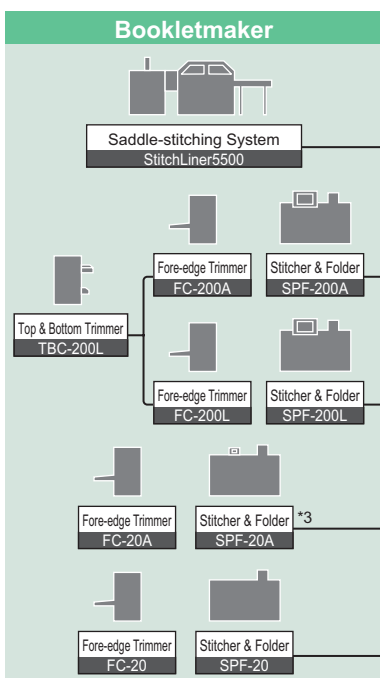
Conveyor CV-400
The CV-400 is used to mount the barcode reader for the BVS-400.

Horizon

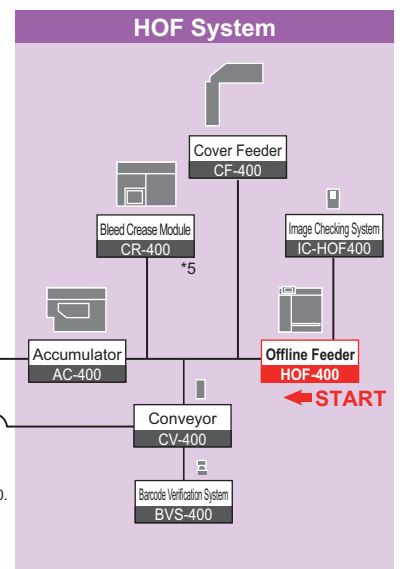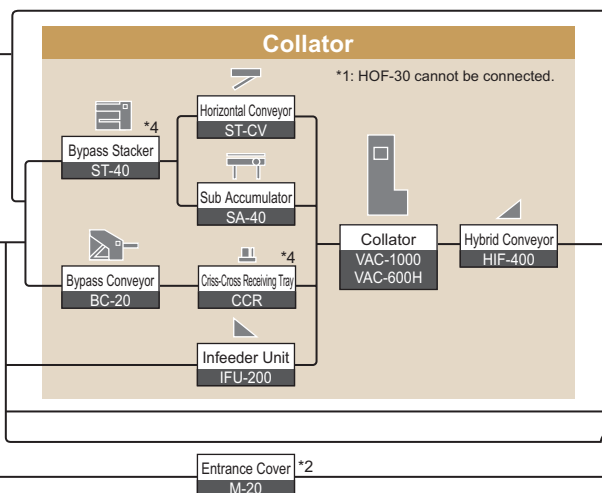SPF series / FC series

IFU-200

VAC series

HIF-400

AC-400
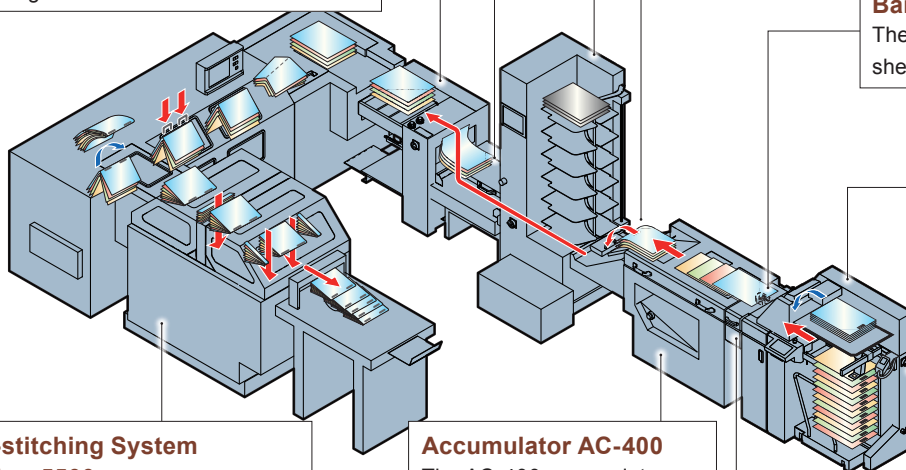
HOF-400 System Configuration

The following flow chart shows the available combination of models.

Start from **Offline Feeder HOF-400** and choose the models you need.

Bookletmaker

Saddle-stitching System
StitchLiner5500

Fore-edge Trimmer
FC-200A

Stitcher & Folder
SPF-200A

Top & Bottom Trimmer
TBC-200L

Fore-edge Trimmer
FC-200L

Stitcher & Folder
SPF-200L

Fore-edge Trimmer
FC-20A

Stitcher & Folder
SPF-20A *3

Fore-edge Trimmer
FC-20

Stitcher & Folder
SPF-20

Collator

*1: HOF-30 cannot be connected.

Bypass Stacker
ST-40 *4

Horizontal Conveyor
ST-CV

Sub Accumulator
SA-40

Bypass Conveyor
BC-20

Criss-Cross Receiving Tray
CCR *4

Collator
VAC-1000
VAC-600H

Hybrid Conveyor
HIF-400

Infeeder Unit
IFU-200

Entrance Cover
M-20 *2

HOF System

Cover Feeder
CF-400

Bleed Crease Module
CR-400 *5

Image Checking System
IC-HOF400

Accumulator
AC-400

Offline Feeder
HOF-400
◀ **START**

Conveyor
CV-400

Barcode Verification System
BVS-400

*2: The M-20 is not necessary when you have bought the BC-20, the ST-40 or the HOF-30.
*3: When the SPF-20A/FC-20A is connected to the HOF-400, the SPF-20A/FC-20A is
   functionally equivalent to the SPF-20/FC-20.
*4: Sheets can be stacked on the CCR or the ST-40 only when on VAC feeding mode.
*5: CR-400 cannot be connected to the StitchLiner5500.

4

Hybrid Conveyor HIF-400
The HIF-400 connects the HOF-400 with the collator.

Bleed Crease Module CR-400
Edge trimming and creasing module which provides for bleed trim and fold creasing for efficient production and high quality finish.

Barcode Verification System BVS-400
The BVS-400 reads a barcode printed on a sheet to verify page order.

Cover Feeder CF-400
Feeds cover sheets and also works as an inserter, merging sheets with those fed from the HOF-400.

**Bookletmaker
SPF series / FC series**
Booklet making system and face trimming system with easy operation.

Image Checking System IC-HOF400
The camera checks the image on the last sheet to secure the page order.

Infeeder Unit IFU-200
By-pass conveyor and manual cover infeed module.

Collator VAC series
Conventional flat sheet collator which is used for collation of offset printed work.
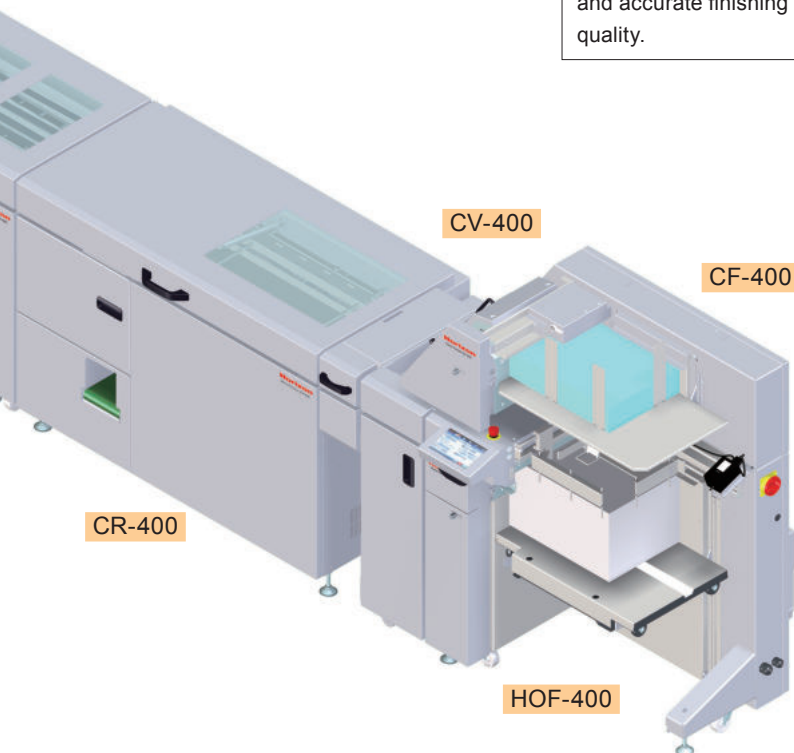
Accumulator AC-400
The AC-400 accumulates the sheets from the HOF-400 for higher productivity and accurate finishing quality.

Conveyor CV-400
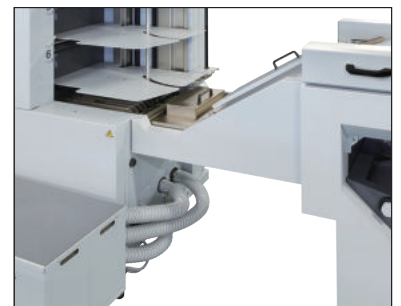The CV-400 is used to mount the barcode reader for the BVS-400.

High Speed Offline Feeder HOF-400
The HOF-400 feeds digitally printed sheets and transports the sheets to the next process.

CV-400

CF-400

CR-400

HOF-400

Hybrid Conveyor HIF-400

- The HIF-400 is the conveyor which connects the HOF-400 and the collator.
- The HOF-400 can be used to process, pre-collated digital print while the VAC towers can be used for processing offset work.
- When the SPF-200A/SPF200L Bookletmaker is used, digital print from the HOF-400 can be merged with the offset print fed from the collator.
  *When the StitchLiner5500 is connected merging sheets from the VAC and HOF is not possible.

StitchLiner5500

AC-400

CV-400

CF-400
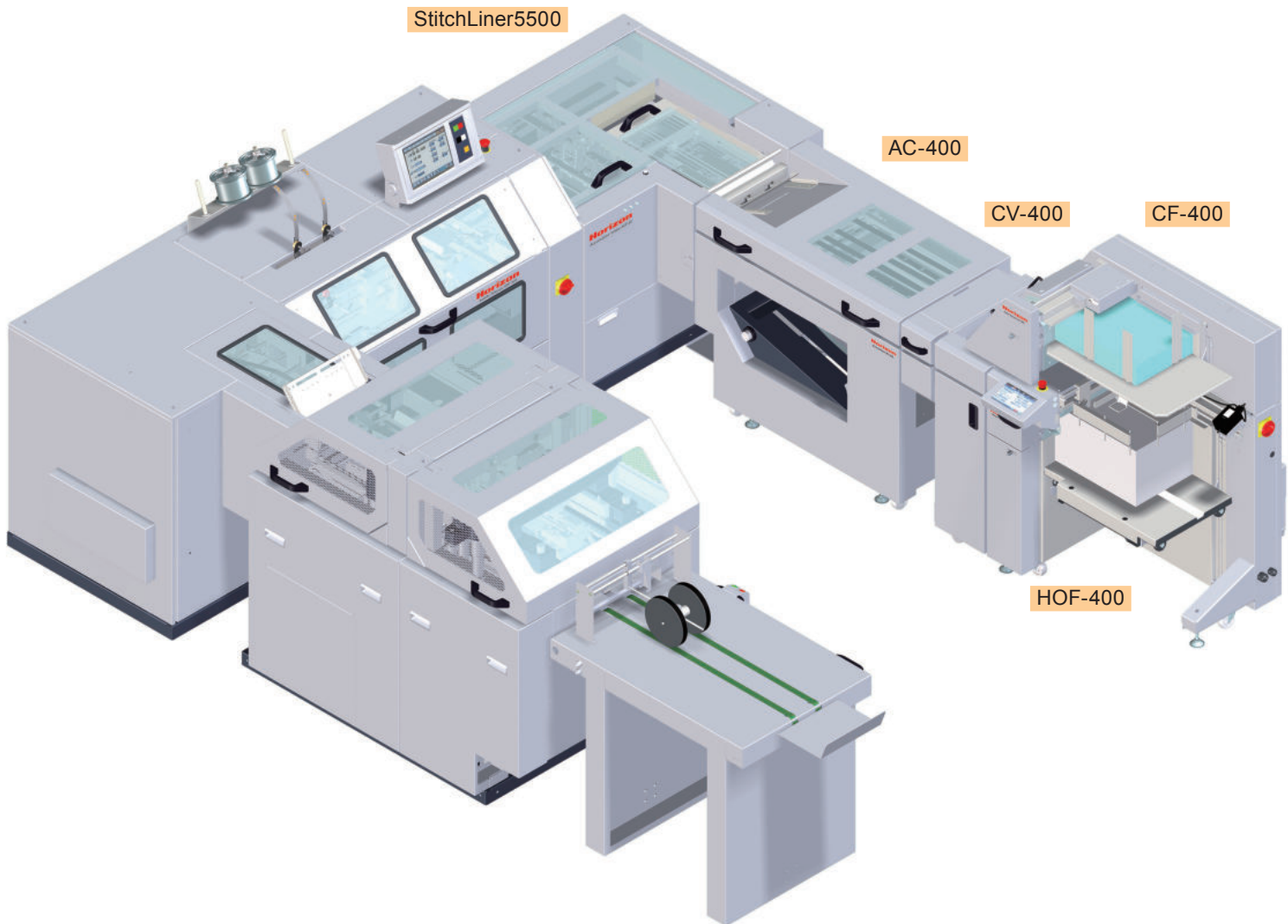
HOF-400

High Speed Offline Feeder HOF-400

- The HOF-400 has a 7" color touch screen display for easy and intuitive setup and operation. If a problem occurs, an icon and an error code which indicate the error status will be displayed on the touch panel for quick error recovery.
- 200 jobs can be stored in memory, and the job can be set up quickly. A USB thumb drive is available for importing and exporting the data from memory.
- The vacuum belt feeding system provides smooth and accurate feeding.
- The maximum pile height of the sheet feed tray is 620 mm / 24.4", this high capacity feed tray minimizes loading time for efficient production. Open access to the feeding area enables easy loading of sheets.
- The mark sensor checks the marks on the first and last sheets for extra security. The standard mark sensor enables you to handle variable sheet count documents with integrity and verification.
- 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

The ultrasonic sensor detects mis-feeds, double-feeds, and sheet jams. The ultrasonic sensor also has the capability to handle variable data applications and variable thickness applications.

Mark Sensor

The mark sensor checks first and last sheets. The mark sensor is capable of reading from the top or the bottom and the detection position can be adjusted easily.

Control Panel

Sheet Feed Section

Barcode Verification System BVS-400
The BVS-400 reads a barcode printed on a sheet to verify page order.

Accumulator AC-400
The AC-400 accumulates the sheets from the HOF-400 for higher productivity and accurate finishing quality.

Cover Feeder CF-400
Feeds cover sheets and also works as an inserter, merging sheets with those fed from the HOF-400.

Image Checking System IC-HOF400
The camera checks the image on the last sheet to secure the page order.

High Speed Offline Feeder HOF-400
The HOF-400 feeds digitally printed sheets and transports the sheets to the next process.
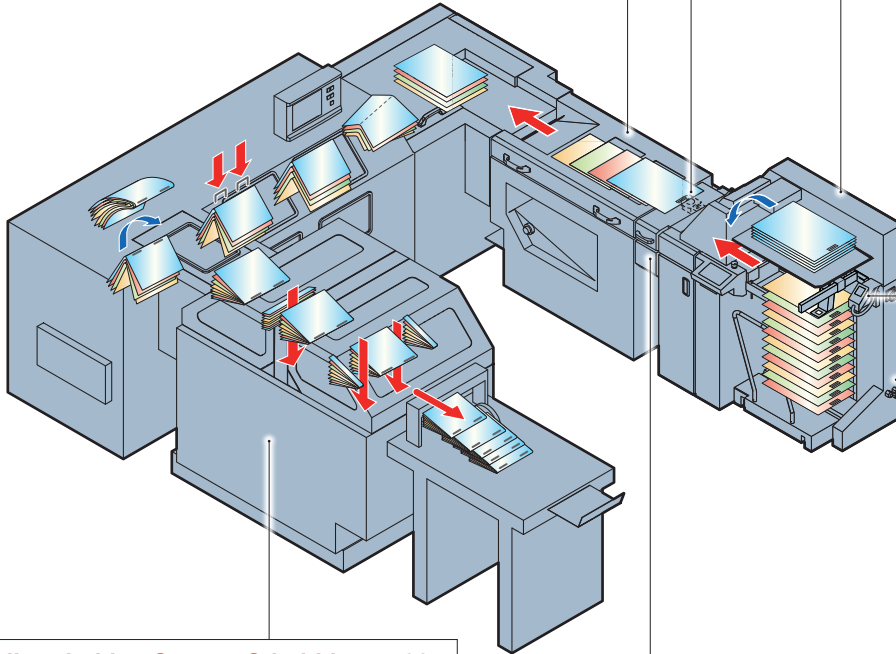
Conveyor CV-400
The CV-400 is used to mount the barcode reader for the BVS-400.

Saddle-stitching System StitchLiner5500
The StitchLiner5500 produces booklets by flat sheet scoring, folding, stitching and three-knife trimming.

Cover Feeder CF-400

- The CF-400 merges the cover sheets into the sheets fed from the HOF-400.
- The maximum pile height is 200 mm / 7.8".
- The feeding type can be selected from four choices; "Inserting above the sheets fed from the HOF-400 to cover feeding", "bottom cover feeding", "Inserting" or "sheet feeding only from the CF-400".
- Ultrasonic sensor is used for reliable sheet detection.
- When the StitchLiner5500 is connected, the CF-400 can feed six-page covers.
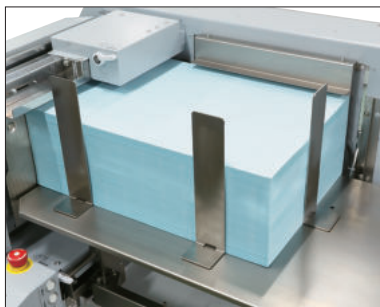
Image Checking System IC-HOF400

- Detect the selected image on the last sheet to be fed and compare the image.
  This is an ideal detection system for static count jobs or variable applications with the same top sheet image.
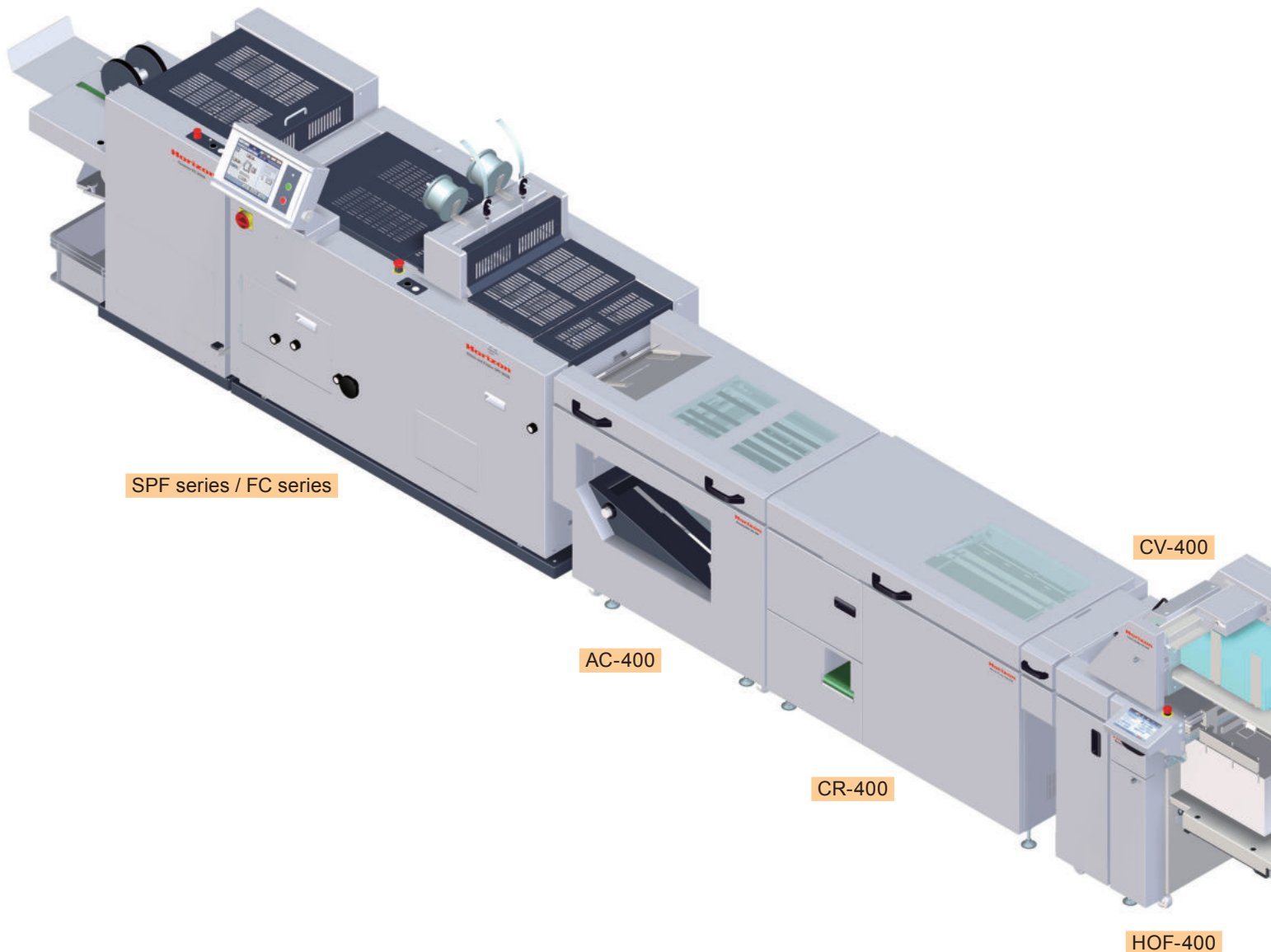
SPF series / FC series

AC-400

CR-400

CV-400

HOF-400

Barcode Verification System BVS-400

- The BVS-400 reads a barcode printed on a sheet to verify page order. The conveyor CV-400 (for barcode reader mounting) and the PC (for verification) are required.

Conveyor CV-400

- This conveyor is used to mount a barcode reader for the BVS-400.
- By-pass conveyor when AC-400 is not connected.
  *Production is slower when AC-400 is not used.

*AC-400 is always required when the StitchLiner is connected.

Bleed Crease Module CR-400
Edge trimming and creasing module which provides for bleed trim and fold creasing for efficient production and high quality finish.

Barcode Verification System BVS-400
The BVS-400 reads a barcode printed on a sheet to verify page order.

Cover Feeder CF-400
Feeds cover sheets and also works as an inserter, merging sheets with those fed from the HOF-400.

Bookletmaker
SPF series / FC series
Booklet making system and face trimming system with easy operation.
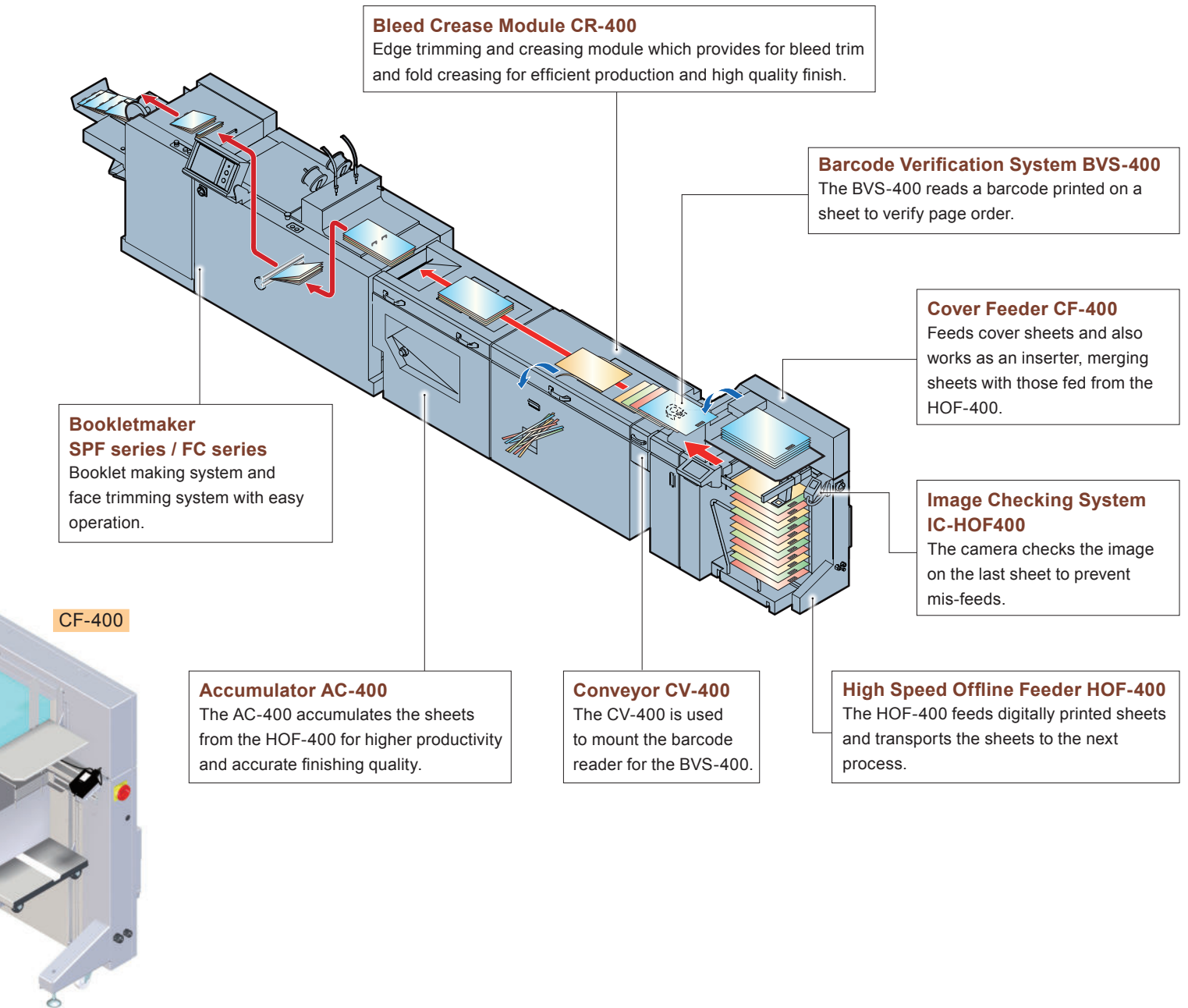
CF-400

Image Checking System IC-HOF400
The camera checks the image on the last sheet to prevent mis-feeds.

Accumulator AC-400
The AC-400 accumulates the sheets from the HOF-400 for higher productivity and accurate finishing quality.

Conveyor CV-400
The CV-400 is used to mount the barcode reader for the BVS-400.

High Speed Offline Feeder HOF-400
The HOF-400 feeds digitally printed sheets and transports the sheets to the next process.

Bleed Crease Module CR-400

- CR-400's impact creaser avoids cracking on digitally-printed applications and also produces crisp tight folded booklets.
- Bleed trims top and tail edge for finished three side trimmed booklets.
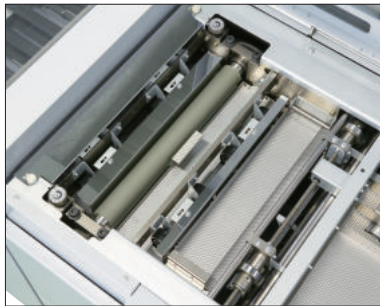
Accumulator AC-400

- The AC-400 accumulates the sheets and transport them to the bookletmaking system.
- Sheets are regularly-overlapped Horizon's unique accumulation mechanism. This enables high speed and reliable production.
- Test sheets and errored sheets are delivered to the reject tray.
- Manual feed table is provided.
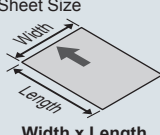
Machine Dimensions (Unit : mm / inch)

Top diagram labels:

6,584 / 259.3"

ST-40+SA-40 1,558 / 61.4"

1,060 / 41.8" — 710 / 28.0" — 842 / 33.2" — 645 / 25.4"

553 / 21.8" — 305 / 12.0"

BVS-400 Power Box

HOF-400 Blower Box

CF-400

ACF-30 | ST-40 | SA-40 | VAC-600H (Tower a) | HIF-400 | AC-400 | CV-400 | HOF-400

1,060 / 41.8"

342 / 13.5"

Blower Box

664 / 26.2"

HOF-400 740 / 29.2"

1,074 / 42.3"
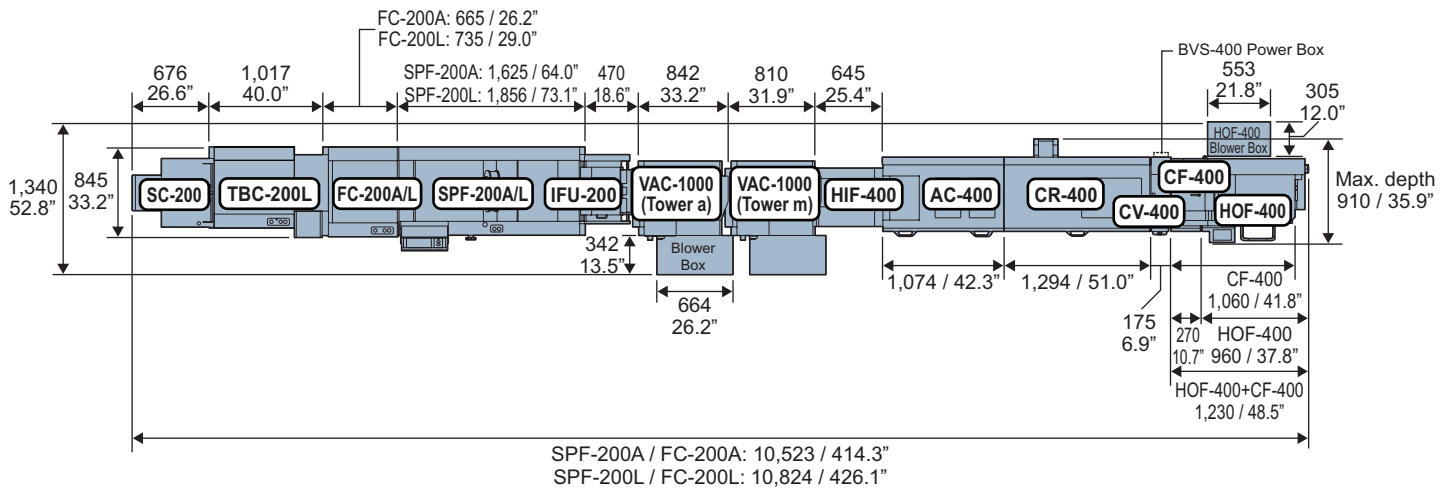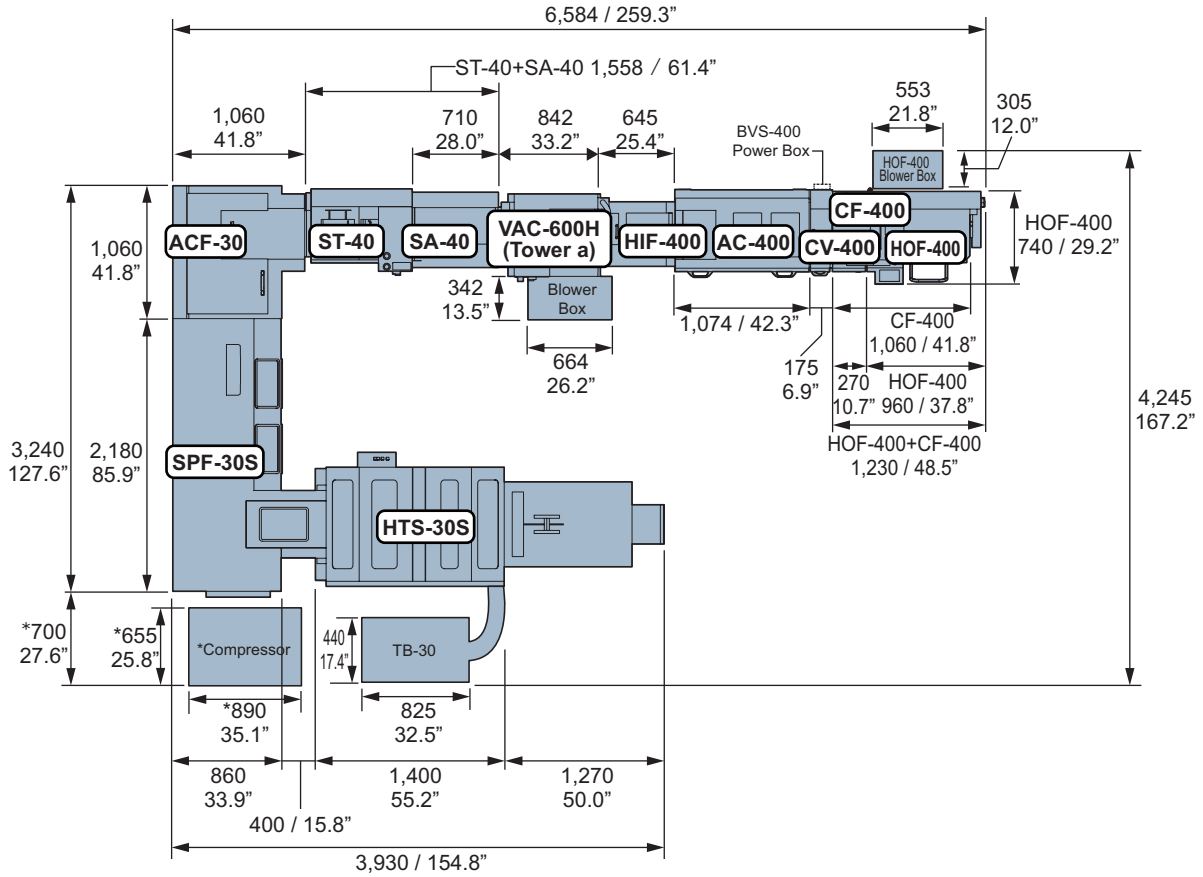
CF-400 1,060 / 41.8"

175 / 6.9"

270 / 10.7"   960 / 37.8"   HOF-400

HOF-400+CF-400 1,230 / 48.5"

4,245 / 167.2"

3,240 / 127.6"   2,180 / 85.9"

SPF-30S

HTS-30S

*700 / 27.6"   *655 / 25.8"

*Compressor

440 / 17.4"   TB-30

825 / 32.5"

*890 / 35.1"

860 / 33.9"   1,400 / 55.2"   1,270 / 50.0"

400 / 15.8"

3,930 / 154.8"

Bottom diagram labels:

FC-200A: 665 / 26.2"
FC-200L: 735 / 29.0"

676 / 26.6"   1,017 / 40.0"

SPF-200A: 1,625 / 64.0"
SPF-200L: 1,856 / 73.1"   470 / 18.6"   842 / 33.2"   810 / 31.9"   645 / 25.4"

BVS-400 Power Box

553 / 21.8"   305 / 12.0"

HOF-400 Blower Box

CF-400

1,340 / 52.8"   845 / 33.2"

SC-200 | TBC-200L | FC-200A/L | SPF-200A/L | IFU-200 | VAC-1000 (Tower a) | VAC-1000 (Tower m) | HIF-400 | AC-400 | CR-400 | CV-400 | HOF-400

Max. depth 910 / 35.9"

342 / 13.5"

Blower Box

664 / 26.2"

1,074 / 42.3"   1,294 / 51.0"

175 / 6.9"

270 / 10.7"

CF-400 1,060 / 41.8"

960 / 37.8"   HOF-400

HOF-400+CF-400 1,230 / 48.5"

SPF-200A / FC-200A: 10,523 / 414.3"
SPF-200L / FC-200L: 10,824 / 426.1"

Top view dimensions:

- 3,593 / 141.5"
- BVS-400 Power Box
- 553 / 21.8"
- 305 / 12.0"
- 1,060 / 41.8"
- HOF-400 Blower Box
- CF-400
- ACF-30
- AC-400
- CV-400
- HOF-400
- HOF-400 740 / 29.2"
- 1,060 / 41.8"
- 1,074 / 42.3"
- 175 / 6.9"
- CF-400 1,060 / 41.8"
- 4,245 / 167.2"
- 270 / 10.7"
- HOF-400 960 / 37.8"
- HOF-400+CF-400 1,230 / 48.5"
- 3,240 / 127.6"
- 2,180 / 85.9"
- SPF-30S
- HTS-30S
- *700 / 27.6"
- *655 / 25.8"
- *Compressor
- 440 / 17.4"
- TB-30
- *890 / 35.1"
- 825 / 32.5"
- 860 / 33.9"
- 1,400 / 55.2"
- 1,270 / 50.0"
- 400 / 15.8"
- 3,930 / 154.8"

Front view dimensions:

- BVS-400 Power Box
- 553 / 21.8"
- 305 / 12.0"
- 670 / 26.4"
- 665 / 26.2"
- 1,625 / 64.0"
- HOF-400 Blower Box
- 1,050 / 41.4"
- 810 / 31.9"
- SC-200
- FC-200A
- SPF-200A
- AC-400
- CR-400
- CF-400
- CV-400
- HOF-400
- Max. depth 910 / 35.9"
- 1,074 / 42.3"
- 1,294 / 51.0"
- 175 / 6.9"
- CF-400 1,060 / 41.8"
- 270 / 10.7"
- HOF-400 960 / 37.8"
- HOF-400+CF-400 1,230 / 48.5"
- 6,733 / 265.1"

Model	HOF-400	CF-400	CR-400	CV-400	AC-400
Sheet Size — Width x Length	Max. 356 x 610 mm / 14.0" x 24.0" Min. 203 x 203 mm / 8.0" x 8.0"	Max. 356 x 610 mm / 14.0" x 24.0" Min. 148 x 203 mm / 6.0" x 8.0"			
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 (157 through 209 gsm), but the feed speed will decrease.	Normal Paper: 64 to 350 gsm Coated Paper: 79 to 350 gsm *When you use thin sheets, you need to decrease the speed depending on the sheet size.	Normal Paper: 52 to 350 gsm Coated Paper: 73 to 350 gsm		
Sheet Pile Height on Feed Tray	Max. 620 mm / 24.4"	200 mm / 7.8"	-	-	-
Trim Width	-	-	Max. 25.4 mm / 1.00"* Min. 3 mm / 0.12" * When the sheet width is 193 mm or shorter, the trim width also becomes shorter according to the sheet width.	-	-
Finished Sheet Width	-	-	Max. 356 mm / 14.01" Min. 142 mm / 5.59"	-	-
Creasing Mechanism	-	-	One set of rubber roller and punch (positive)	-	-
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.)	-	When creasing 28,000 sheets per hour (203 x 203 mm / 8.0" x 8.0") 25,000 sheets per hour (A4) 17,000 sheets per hour (A3) (When the sheets are processed one by one.)	-	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 200-220 V, 50 Hz / 60 Hz 3-Phase 380 / 400 / 415 V, 50 Hz / 60 Hz	3-Phase 200 - 220 V ,50 / 60Hz 3-Phase 380 / 400 / 415 V, 50 Hz / 60 Hz (The power is supplied from the HOF-400.)	Single Phase 200 - 240 V, 50 Hz / 60 Hz	-	Single Phase 200 V, 50/60 Hz Single Phase 208 V, 50/60 Hz Single Phase 220 V, 50/60 Hz (The power is supplied from the HOF-400.)
Machine Dimensions	HOF-400: W960 x D740 (When including the blower box: 1,050 mm / 41.4") x H936 mm / W37.8" x D29.2" x H36.9" Blower Box: W553 x D305 x H350 mm / W21.8" x D12.0" x H13.8"	Feed Section: W1,060 x D640 x H330 mm / W41.8" x D25.2" x H13.0" Transport Section: W275 x D640 x H910 mm / W10.9 x D25.2" x H35.9"	W1,294 x D852 x H910 mm / W51.0" x D33.6" x H35.9"	W175 x D675 x H440 mm / W6.9" x D26.6" x H17.4"	W1,074 x D655 x H910 mm / W42.3" x D25.8" x H35.9"

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

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