## FOLDING

## ICE FOLDER AFV. 565 / TV.56S Seies

Next Generation Folder


## All Connected...

## Optimize your 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. Advanced automation to provide increased efficiency and productivity. In addition, connecting with an iCE LiNK workflow system provides a totally connected work environment.

# INCREASED PRODUCTIVITY WITH THE HIGHEST LEVEL OF AUTOMATION. 

Newly added functions enable easy operation and maximizes quality and productivity.

## BENEFITS

## EASY SETUP

Icon based touchscreen provides quick and easy setup without any manual adjustment. Fully-automated setup enables any operator to produce consistent, high quality folds with efficiency and high productivity.

## HIGH PRODUCTIVITY

Advanced automation technology reduces set-up time dramatically. High speed production is achieved with belt speeds of $270 \mathrm{~m} / \mathrm{min}$.

## APPLICATION FLEXIBILITY

Flexible machine configurations and a variety of options allow for a wide range of applications.

## STATUS RECOGNITION

The LED lights in the AFV-56S indicate the operational status by switching colors to identify the system status at a glance. The lights serve as white working lights when the cover is open. The color of the lights can be chosen from the touch panel.

MANAGE YOUR BINDERY WITH HORIZON'S BINDERY CONTROL SYSTEM
The system can be enhanced with automated workflow from upstream to post-press with iCE LiNK, which uses cloud technology, Horizon's post-press management system.


## APPLICATION FLEXIBILITY

■ A wide variety of fold patterns can be set up automatically by selecting the icons on the touch screen. *Non-standard fold patterns can also be set up automatically by entering the setup size for each fold. More fold patterns are available by connecting with the TV-56S series as a second station.

|  | Single Fold | Accordion Fold | Zigzag Fold <br> (4 panel) | Zigzag Fold (5 panel) | Zigzag Fold <br> (6 panel)*1 | Zigzag Fold <br> (7 panel)*1 | Short Fold | Letter Fold | Double Parallel Fold (4 panel) | Round Parallel Fold (4 panel)*2 | Single Fold <br> + Double <br> Parallel <br> Fold*2 | Gate Fold |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\Delta$ | $\Delta\rangle$ |  |  |  |  | $4$ |  |  |  | $\mathbb{4}$ | $3$ |

*1: Not available with the AFV-564SF/SA.
*2: Sheet size should be input manually with the AFV-564SF/SA.

## KEY FEATURES FOR MORE PRODUCTIVITY.

Advanced automation to bring your operation to the next level.

## ADJUSTMENT FOR SKEWED FOLDS AFVV-566SFISA, AFV.564SF/SA

- The sheet register guide angle and buckle plates are automatically set by entering the sheet size and fold pattern at the touch-screen. With automated guide angle adjustment precise folds can be produced without highly skilled or experienced operators.



## ROLLER GAP ADJUSTMENT AFV.566SF/564SF

- All fold roller gaps are automatically set by inserting a single strip of paper. Gap setting is completed according to the sheet thickness and fold pattern. Set-up time is greatly reduced with the
 elimination of sheet insertion for each roller gap.
- Fine-adjustment of all fold roller gaps is possible in a micron unit via the touch-screen.



## AUTOMATED REGISTER CONVEYOR AFV-566SF/SA, AFV-564SF/IA

- The vacuum register guide sets automatically according to the sheet width. Sheets are properly aligned to the guide for folding accuracy.
- Five vacuum chambers adjust automatically for sheet length, and coated or uncoated surface. The vacuum can be adjusted individually based on sheet condition and the setting can be memorized for easy recall.
- Efficient blower motors insure long lasting performance and energy efficiency.



## RIGHT-ANGLE REGISTER CONVEYOR TVV-566SFISA, TV-564SF/SA

- Conical drive rollers are used for accurate sheet registration with minimal adjustment required.



## SCORING NAVIGATOR AFVV-56SSF/564SF

- Scoring navigator allows operator to adjust accurate scoring and perforation positioning with easy setup procedure.
- Scoring position can be adjusted incrementally by 0.1 mm .
- Settings can be saved to memory for recall on reoccurring jobs.



## BRIDGE CONVEYOR (BGV-56 / BGV-56BBS) Option

- Bridge conveyor is on a slide rail for easy access to the scoring shafts.
- Smooth transfer of sheets to the 2nd fold section, presser stacker or delivery conveyor.
- The BGV-56BBS automatically adjusts to maintain center registration at the BBS-40 book block stacker.



## DYNAMIC FOLD Option

Optional dynamic buckle plate is available for changing the fold patterns on-the-fly for book production.
For example, 12 page and 8 page signatures can be produced consecutively to reduce blank pages in the book.


## ADVANCED AUTOMATION FOR EASY SETUP

| ITEMS FOR AUTOMATED SETUPS |  | DESCRIPTIONS | FIRST STATION |  | SECOND STATION |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | AFV-566SF AFV-564SF | AFV-566SA AFV-564SA | $\begin{aligned} & \text { TV-566SF } \\ & \text { TV-564SF } \end{aligned}$ | $\begin{aligned} & \text { TV-566SA } \\ & \text { TV-564SA } \end{aligned}$ |
|  | Suction Head |  | Suction head moves to feeding position according to the sheet length. | Yes | No | No | No |
|  | Table Guide | Table guide moves to the proper loading position according to sheet width. | Yes | Yes | No | No |
|  | Vacuum Register Belt | Vacuum register belt moves together with register guide. Sheets align to guide by vacuum. Vacuum level can be adjusted and sets automatically according to sheet quality. | Yes | Yes | No | No |
|  | Sheet Register Guide | Register guide moves to proper position according to sheet width. | Yes | Yes | No | No |
|  | Sheet Edge Guide | Sheet edge guide sets to proper position to support sheet edge for smooth sheet transport. | Yes | Yes | No | No |
|  | Register Guide Angle | Register guide angle can be adjusted from - 4 mm to +4 mm . | Yes | Yes | No | No |
|  | Sheet Hold-down Guide | Sheet hold-down guide adjusts to sheet width for smooth sheet transfer to fold section. | Yes | Yes | No | No |
|  | Roller Gap | Roller gap sets up automatically by inputting the single sheet into the caliper. | Yes | No | Yes | No |
|  | Buckle Stopper | The buckle stopper position is set automatically depending on the sheet size and fold pattern. | Yes | Yes | Yes | Yes |
|  | Scoring Position | Score roller position is located automatically based on sheet width and fold pattern. | Yes | No | No | No |
|  | Register Guide | Sheet register guide sets automatically according to fold pattern at 1st unit. | No | No | Yes | Yes |
|  | Sheet Hold-down Guide | Sheet hold-down guides adjust for smooth transfer of sheets to 2nd fold section. | No | No | Yes | Yes |

## DETAILS FOR EACH SECTION.




The 12.1 inch color touch-screen is icon-based for user-friendly operation. Set-up and operation can be done at the touchscreen. Up to 999 job settings can be stored in job memory. The job settings saved in the previous model, AFV-56 can be transferred to this model.

## Remote Controller

Wired remote controller with jog dial allows for start, stop feeding and test feeding from a remote position. Fine tuning of all automated settings is also possible via the remote control.

2 SUCTION HEAD / ASSIST AIR


Newly designed suction head and feeding system enables easy setup and consistent feeding. Innovative suction head and assist air* provide accurate sheet separation and pick-up. Blowing air volume and height of the suction head can be adjusted according to the sheet condition for stable feeding for a wide variety of printed materials.
*The assist air kit SAB-56V with adjustable nozzle height is available as an option.

## 3 feed rotor



Quality polyurethane rotor provides high speed feeding without scratching. The suction angle adjustment enables stable feeding by adjusting the angle of suction air according to the sheet condition. The supersonic and photoelectronic double feed detect sensors come standard for superior double feed protection.

## Supersonic Sensor

The supersonic double feed sensor works through the transmission of sound waves. Its advanced detection ensures accurate double feed detection even with a solid black printed sheet.

7 PERFORATION / SCORING


5 fold rollers
Unique design and precision manufacturing insure folding accuracy and long roller life. Soft or hard urethane rollers are available depending upon folding requirements.

RL-566VS/RL-564VS
RL-566VH1/RL-564VH1 Hard Urethane Roller

4
SHEET REGISTER GUIDE
AFV-566SF/564SF


The register guide is coated with a special anti-static plating, for troublefree folding of printed sheets, even in dry climates, where static can be a problem. The register guide ensures stable transportation and accurate registration of a wide range of paper stocks. Newly added cover provides noise reduction and safe operation. All the sections set-up automatically and the operator does not need to open the cover for the change over process. Newly designed sheet control reduces waste when a feed error happens. Mis-fed sheets are stopped prior to entering the fold section for easy operator removal.

6
BUCKLE PLATES


Uniquely designed buckle plate enables improved folding accuracy and consistency for a wider range of substrates, including thin or light weight sheets. Specially-coated buckle plates minimize paper friction to maintain fold accuracy. When feeding from a printed roll, the uniquely designed automatic gate mechanism of dynamic buckle plate enables changing fold patterns on the fly.


BRIDGE CONVEYOR


The unit slides outside for easy score position adjustment.

9
RIGHT-ANGLE REGISTER CONVEYOR


Auto adjusting conveyor and guides with conical drive rollers efficiently transfers even complex folded sheets to the 2 nd fold section.

## OPTIONS.

Available options to extend capabilities.

## | SSK-56V SMALL SIZE KIT

■ Minimum 105 mm or 4.13" width sheet can be fed. (Standard: 128 mm or 5.04")

- The side air will be used for feeding instead of the suction head.



## | LT-56V EXTENSION TABLE

- The feed table and suction head are extended for sheets up to $1,100 \mathrm{~mm}$ or 43.31" length.
(Standard: 900 mm or 35.43")



## | P-56V / 56VSH / 56VUL / 56VX PUMP

- The pump is selectable to suite with the customers' requirements.


P-56VX
Long-life type

P-56VSH
Noise reduction cover attached


## SAB-56V SIDE AIR BLOWER

- Side air nozzle sets according to the height of sheets on the feeder for more accurate sheet separation and pickup.
- Increased air control for small format and light
 weight sheets.


## Al-56V AIR INTEGRATION KIT

- The air is provided directly from the air supply of the factory via this integration kit. The installation of the pump is not required.


FEEDER SECTION

- Retrofittable Options

| NAME | MODEL | DESCRIPTIONS | AFV566SF | AFV564SF | AFV566SA | AFV- <br> 566SA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{l\|l} \text { ๗} & \text { Pump } \\ \frac{\rho}{0} & \text { Pump } \\ \frac{\pi}{0} & \\ \hline 0 & \end{array}$ | P-56V | Pump for CE. | - | - | - | - |
|  | P-56VUL | Pump for UL. | - | - | - | - |
|  | P-56VSH | Noise reduction cover is attached. (*-6 dB reduction) | - | - | - | - |
|  | P-56VX | Long-life type (Blades are about three times* more durable than P-56V.) <br> *Depends on the condition. | - | - | - | - |
| Air Integration Kit | Al-56V | Power saving type of air compressor. The pump is not required. | - | - | - | - |
| Small Size Kit | SSK-56V | Minimum 105 mm or 4.13" width sheet can be fed. (Standard: 128 mm or 5.04") | - | - | - | - |
| Side Air Blower | SAB-56V | Side blowing assist air for stable feeding. | - | - | - | - |
| Extension Table | LT-56V | Maximum $1,100 \mathrm{~mm}$ or 43.3 sheet can be loaded. (Standard: 900 mm or 35.43 ") | - | - | - | - |
| Mark Sensor Kit | MS-56V | A camera scans the mark on sheets to identify any blank or misloaded sheets. | - | - | - | - |
| Mark Camera Kit | IMC-56V | A camera reads the end mark on sheets to separate the signatures. | - | - | - | - |
| Clear File | CLF-56V | This device controls the feed rotor to prevent sensitive stocks from being scratched. | - | - | - | - |
| Interface Unit | DIFV-56 | Transports the sheets cut from the paper roll to the AFV-56S series. | $\bullet$ | $\bullet$ | No | No |
| Barcode Reader Kit | BR-56DF | Reads the data matrix to switch the fold pattern for dynamic folding. | - | - | No | No |

| FP-56V / FP-56VP FRONT PERFORATION UNIT

- Accurate perforation before folding is ideal for direct mail applications and page tear out applications. Jump perforation is possible as an option. (Factory Option)



## | IC-56V-U / IC-56V-L IMAGE CHECKER

- The camera verifies the image on the sheet with the preset image to identify any blank and misloaded sheets.



## | BLADES

- A wide variety of optional blades are available for various applications. (Blades in the photo are examples.)



## | GFb-56V GATE FOLD BUCKLE

- The gate fold buckle can be set up quickly, with no special skill for precise, accurate closed gate folding.



## | CGU-51 GLUING UNIT

- The gluing unit can produce 8-page or 12-page glued booklets and direct mail applications.

- For optional FP-56V/FP-56VP.
(Blades in the photo are examples.)


FOLDING / PERFORATION / SCORING SECTION

| NAME | MODEL | DESCRIPTION | AFV566SF | $\begin{aligned} & \text { AFV- } \\ & \text { 564SF } \end{aligned}$ | $\begin{aligned} & \text { AFV- } \\ & \text { 566SA } \end{aligned}$ | $\begin{aligned} & \text { AFV- } \\ & \text { 564SA } \end{aligned}$ | $\begin{gathered} \text { TV- } \\ \text { 566SF } \end{gathered}$ | $\begin{gathered} \text { TV- } \\ 564 \mathrm{SF} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | $\begin{gathered} \text { TV- } \\ 566 \text { SA } \end{gathered}$ | $\begin{gathered} \text { TV- } \\ 564 S A \end{gathered}$ |
|  | RL-566VS | 8 rollers for 6 buckle plate unit | $\bigcirc$ | No | $\bigcirc$ | No | $\bigcirc$ | No |
|  | RL-564VS | 6 rollers for 4 buckle plate unit | No | $\bigcirc$ | No | $\bigcirc$ | No | $\bigcirc$ |
|  | RL-566VH1 | 8 rollers for 6 buckle plate unit | - | No | $\bigcirc$ | No | - | No |
|  | RL-564VH1 | 6 rollers for 4 buckle plate unit | No | - | No | - | No | - |
| Front Perforation Unit | FP-56V | Removable metal anvil roller is used for front perforation unit. Only available as factory option. | - | - | - | - | No | No |
|  | FP-56VP | Removable resinous roller used for front perforation unit. Only available as factory option. | - | - | - | - | No | No |
| Skip Perforation Unit | JM-AF | Perforation head for skip perforation | - | - | - | - | No | No |
| Skip Perforation Control Unit | JM-C56V | Controller for JM-AF | - | - | - | - | No | No |
| Cold Glue Unit | CGU-51 | Gluing unit produces 8-page or 12-page glued booklets and direct mail applications. | - | - | $\bullet$ | - | No | No |
| Glueing Unit Attachment Kit | CGU-K56V | A attachment kit for CGU-51 | - | - | - | - | No | No |
| Soft Polyurethane Roller with Groove | RL-CG56VS | Fold roller with groove in the center | - | - | - | - | No | No |
| Segment Soft Polyurethane Roller | RL-SEG56VS | Segmented roller for adjustable gluing location | - | - | - | - | No | No |
| Segmented Buckle Plate | SGB-56V | Segmented plate for adjustable gluing position | - | - | - | - | No | No |
| Flat Deflector | FD-56V | Install to the buckle where the folding is not necessary. | - | - | - | - | - | - |
| Image Checker | IC-56V-U | A camera scans the top surface of sheets to identify any blank or misloaded sheets. | - | - | $\bullet$ | - | No | No |
| Image Checker | IC-56V-L | A camera scans the bottom surface of sheets to identify any blank or misloaded sheets. | - | - | - | - | No | No |
| Gatefold Buckle | GFB-56V | Gate fold buckle to produce closed gate fold application. | - | - | - | - | - | $\bullet$ |
| Bridge Conveyor | BGV-56 | Bridge conveyor between the first and second station. | - | - | - | - | - | - |
| Automated Bridge Conveyor | BGV-56BBS | Feed position sets automatically with the register guide on right-angled station for stable sheet transportation. | - | - | - | - | No | No |
| Ionizer | INZ-DIFV | Ionizer to prevent the static electricity during the transportation from the interface conveyor DIFV-56 | - | - | No | No | No | No |
|  | INZ-56V | Ionizer for smooth sheet transportation without any trouble with static electricity | - | - | - | - | No | No |

We have various kinds of options and peripheral equipment other than the ones listed above. Please contact your local dealer for more information.

## OPTIONS.

## Optional Units for the Delivery Section.

## |LCVV-56 LONG CONVEYOR

- A wide belt surface is capable of efficiently delivering any size folded piece.
- Conveyor height is easily adjusted to the proper sheet delivery height.
- Conveyor running mode can be set from the touch panel of the folder.



## | PSX-56 / PSX-56R PRESS STACKER

- Stacked signatures or booklets of a preset amount are delivered to a comfortable height for easy packaging. Rigid, large diameter rollers apply 1.2 tons of pressure for crisp, tight and flat folds. Applications can be stacked 1-up, 2-up or 3-up for efficient production.
- 20 job memory positions for easy recall of repeated jobs.



## | PST-66 / PST-44 / PST-44L PRESS STACKER

- First roller removes air between sheets and the second roller presses the sheets tightly to compress the folded pieces with 12,000N / 4,000N pressure for the PST-66 and PST-44/44L respectively.
- Specially coated press rollers achieve tighter fold quality for a wide range of applications such as signatures from thinner sheets, thicker sheets or even 16 page booklets.
- Offset delivery function for efficient production.
- Sheet width: Up to 690 mm or $27.1^{\prime \prime}$ for PST-66

Up to 470 mm or $18.5^{\prime \prime}$ for PST-44/44L

- The delivery conveyor of PST-44L is extended 300 mm compared to the PST-44.


## | PR-4OS PRESS ROLLER UNIT

- Strong and rigid press roller presses the folded sheets to form crisp tight folds. The press stacker can be used with the standing delivery unit ED-40S.


## | ED-40S STANDING DELIVERY

- Tightly folded pieces are vertically stacked for easy off-loading.
- An automatic batch kicker makes separation for easy counting.


PST-66


## | MKU-54T MOBILE KNIFE FOLD UNIT

- The MKU-54T is a mobile knife unit equipped with a buckle fold plate under the knife.
- Sheet width: 165 to 538 mm or 6.5 " to $21.1^{\prime \prime}$
- Letter fold and 8-page cross folds are possible.



## | T-564A / T-566A BUCKLE UNIT

- A wide range of fold patterns such as map folds or face up and face down 16 page signature folding can be performed with this additional buckle station.
- Stand alone color touch screen enables set up of the folding buckle plates instantly with simple and intuitive operation.
- 


## | MKU-38 MOBILE KNIFE FOLD UNIT

- Rotatable knife unit can fold up or down for a wide range of sheets from 90 to 380 mm or 3.6 " to 14.9 " width.



DELIVERY SECTION

| NAME | MODEL | DESCRIPTIONS | NOTES |
| :---: | :---: | :---: | :---: |
| Long Conveyor | LCVV-56 | Standard delivery conveyor. <br> The running mode can be set by the touch panel of the folder AFV-566FKT/564FKT. |  |
|  | LCV-54 | Conveyor keeps moving when the folder stops. |  |
| Press Stacker | PST-44 / PST-44L | 0.4 tons of pressure can be applied to press and stack the signatures. | Adapter cable CMC-P5V15 is required. |
|  | PST-66 | 1.2 tons of pressure can be applied for tighter fold quality. |  |
| Press Stacker | PSX-56 / PSX-56R | Tightly pressed signatures, direct mailers or booklets are stacked and delivered at a comfortable height. | Adapter cable CMC-P4V is required. |
| Book Block Stacker | BBS-40 / BBS-40L | Signature book blocks are accumulated and tack glued for downstream processing. | Adapter cable CMC-P5V15 is required. |
| Standing Delivery | ED-40S | Small applications are delivered in the vertical posture for easy handling after delivery. | Adapter cable CMC-P3V is required. *Not required when connecting with the PR-40S. |
| Press Roller Unit | PR-40S | High performance press roller ensures crisp tight folds with 0.4 tons of pressure. | Adapter cable CMC-P3V is required. |
| Mobile Knife Fold Unit | MKU-54T | Mobile knife unit with buckle under the knife | Adapter cable CMC-P4V is required. |
|  | MKU-38 | Mobile knife unit for additional knife fold |  |
| Buckle Unit | T-566A / 564A | Additional buckle station to maximize folding capabilities | Adapter cable CMC-P3V is required. |

## SMART BINDING SYSTEM.

## In-line Book Production.

## iCE FOLDER AFV-566SF/564SF

Roll to finish configuration suitable for medium to short run production.
The system processes the books into various finished sizes with quick changeover.
A tracking system is also available for efficient and high security production.

(Top View)


## | DIFV-56 INTERFACE CONVEYOR Option for AFv-566sF/564sF

DIFV-56 transports sheets cut from a printed roll to the AFV-566SF/564SF. Optional barcode reading allows for variable sheet length and fold pattern change on the fly.


|  | DIFV-56 |
| :---: | :---: |
| Sheet Size | Width x Length <br> Max. $520.7 \times 900 \mathrm{~mm}$ or $20.500^{\prime \prime} \times 35.435^{\prime \prime}$ <br> Min. $165.1 \times 230 \mathrm{~mm}$ or $6.500^{\prime \prime} \times 9.060^{\prime \prime}$ <br> *Length 140 mm or $5.515^{\prime \prime}$ when feed rotor is used. However, a pump or Al-56V air integration kit must be connected to the folder." |
| Sheet Weight Range | Uncoated Paper 40 to 250 gsm, Coated Paper 50 to 232 gsm |
| Belt Speed | 270 meters per minute or 885 feet per minute (Synchronizing with the folder) |
| Voltage/Frequency | 3 -phase 200 to $220 \mathrm{~V}, 50$ or 60 Hz |
| Machine Dimensions | Conveyor: <br> W780 x D1,205 x H350 mm or W30.7" $\times$ D47.5" $\times \mathrm{H} 13.8^{\prime \prime}$ <br> Slide-away pedestal: <br> W790 x D610 x H320 mm or W31.1" x D24.0" x H12.6" |

## DIFV-56

Max. $520.7 \times 900 \mathrm{~mm}$ or $20.500^{\prime \prime} \times 35.435^{\prime \prime}$
M. $165.1 \times 230 \mathrm{~mm}$ or $6.500^{\circ} \times 9.060^{\prime \prime}$

Length 140 mm or 5.515 when feed rotor is used. However, a pump or Al-56V air integration kit must be connected to the folder."

Uncoated Paper 40 to 250 gsm,
oated Paper 50 to 232 gsm
(Synchronizing with the folder)
ase 200 to $220 \mathrm{~V}, 50$ or 60 Hz

W780 x D1,205 x H350 mm or W30.7" x D47.5" x H13.8"
W790 x D610 x H320 mm or W31.1" x D24.0" $\times$ H12.6"

## | BBS-40 / BBS-40L BOOK BLOCK STACKER option for Av-s.s6ssifgsss

- The signatures are temporarily bound by spot-gluing and transported to the next binding process. Faulty book blocks are automatically rejected. The optional tracking system verifies the sequence of sheets before gluing. This process insures page order and provides a higher level of quality control.
BBS-40L: When connecting with CBF-SB, BBF-480, and LBF-500
BBS-40: When connecting with BBF-SB


## Tracking System

Tracking system verifies the book ID, total number of pages, and page order to check if there is a missing signature or wrong order. The tracking results are saved to the PC.


| BBS-40 / BBS-40L |  |  |
| :---: | :---: | :---: |
| Signature Size |  | Width x Length <br> Max. $385 \times 275 \mathrm{~mm}$ or $15.15^{\prime \prime} \times 10.82^{\prime \prime}$ <br> Min. $148 \times 105 \mathrm{~mm}$ or $5.83^{\prime \prime} \times 4.13^{\prime \prime}$ |
| Signature/ Booklet Thickness | Max. 2 mm or $0.07^{\prime \prime}$ <br> Min. 0.2 mm or $0.008^{\prime \prime}$ |  |
| Stack Height | Max. 80 mm or $3.14^{\prime \prime}$ <br> Min. 2 mm or $0.08^{\prime \prime}$ |  |
| Production Speed | Press Roller Speed: 50 to 160 meters per minute Transport Section Speed: 30 to 80 meters per minute Delivery Section Conveyor: 20 to 40 meters per minute Infeed speed: Max. 16,000 sheets per hour (*1) Output Cycle: Max. 2,000 blocks per hour |  |
| Number of Press Rollers | Air Remove Roller x 1, Press Roller x 1 |  |
| Voltage/Frequency | Single Phase 200 to $240 \mathrm{~V}, 50$ or 60 Hz |  |
| Machine | $\begin{aligned} & \text { BBS-40: } \\ & \text { W2,910 } \times \text { D830 } \times \text { H1, } 135 \mathrm{~mm} \text { or W114.6" } \times \text { D32.7" } \times \text { H44.7" } \end{aligned}$ |  |
| Dimensions | $\begin{aligned} & \text { BBS-40L: } \\ & \text { W2,910 x D830 x H935 mm or W114.6" x D32.7" x H36.9" } \end{aligned}$ |  |

*1: The infeed speed depends on the signature size. The following figures are the standard maximum speed. However, these figures are not the guaranteed since the infeed speed changes depending on the paper or temperature

## SPECIFICATIONS.

Machine Dimensions. (Unit: mm or inch)

Flexible modular concept increases folding capabilities.

| MODELS |  | NUMBER OF BUCKLES | AUTOMATION | iCE LiNK |
| :---: | :---: | :---: | :---: | :---: |
|  | AFV-566SF | 6 | Full-automatic | Standard |
|  | AFV-564SF | 4 | Full-automatic | Standard |
|  | AFV-566SA | 6 | Full-automatic | Option |
|  | AFV-564SA | 4 | Full-automatic | Option |
| $n$000000000 | TV-566SF | 6 | Full-automatic | Standard |
|  | TV-564SF | 4 | Full-automatic | Standard |
|  | TV-566SA | 6 | Semiautomatic | Option |
|  | TV-564SA | 4 | Semiautomatic | Option |

* We cannot accommodate a change of number of buckles and type of automation after the shipment.


## CONFIGURATION 1

- Stand-alone 6-buckle

Stand-alone 6-buckle or 4-buckle configuration for brochure or leaflet folding.


AFV-56S series + LCVV-56

## CONFIGURATION 2

- Right Angle 6/4 Buckle system

Buckle folding system is available with 4 or 6 buckle plates in both the parallel and right angle sections. Right angle configuration expands folding patterns for applications, including direct mail and book signatures. This configuration also allows for scoring in the first station and folding on the second station for heavier weight stocks.


AFV-56S series + TV-56S series + PST-44L

## CONFIGURATION 3

- In-line 6/6 Buckle System

Straight 6/6 (4)-buckle modular system for maximum 10 or 12-buckle operation. Complex fold patterns can be performed with this configuration.


AFV-56S series + TV-56S series + PST-44L
(Top View)


(Top View) 6,487 / 255.4" (AFV-566SF / SA + TV-566SF / SA) 6,397 / 251.9" (AFV-564SF / SA + TV-564SF / SA)


\left.|  | AFV-56S / TV-56S SERIES |
| :--- | :--- | :--- |$\right]$


|  | LCVV-56 |
| :--- | :--- | :--- |
| Signature Size | Width $\times$ Length <br> Max. $560 \times 470 \mathrm{~mm}$ or $22.04 " \times 18.51 "$ <br> Min. $100 \times 50 \mathrm{~mm}$ or $3.93 " \times 1.97 "$ |
| Voltage | DC24V : Electricity supplied via folder connector |


|  | MKU-54T |
| :--- | :--- | :--- |
| Signature Size | Width $\times$ Length <br> Max. $538 \times 350 \mathrm{~mm}$ or $21.1 " \times 13.7^{\prime \prime}$ <br> Min. $165 \times 80 \mathrm{~mm}$ or 6.5" $\times 3.2^{\prime \prime}$ |
| Sheet Weight Range | Uncoated Paper 35 to 244 gsm |
| Belt Speed | 50 to 180 meters per minute |


|  | MKU-38 |
| :--- | :--- | :--- |
| Signature Size | Width $\times$ Length <br> Max. $380 \times 280 \mathrm{~mm}$ or $14.9 " \times 11.0^{\prime \prime}$ <br> Min. $90 \times 20 \mathrm{~mm}$ or $3.6^{\prime \prime} \times 0.8^{\prime \prime}$ |
| Sheet Weight Range | Uncoated Paper 35 to 210 gsm |
| Belt Speed | 30 to 180 meters per minute, 99 to 590 feet per minute |
| Belt and Roller Gap | Fold Roller Section: Max. 4 mm or $0.157^{\prime \prime}$ |
| Voltage/Frequency | Single Phase 200 to $240 \mathrm{~V}, 50$ or 60 Hz |
| Machine Dimensions | W685 $\times$ D858 $\times \mathrm{H} 1,283.5 \mathrm{~mm}$ or $\mathrm{W} 27.0^{\prime \prime} \times$ D33.8" $\times \mathrm{H50.6"}$ |


|  | PST-66 | PST-44 / 44L |
| :--- | :--- | :--- |


|  | PSX-56 / PSX-56R |
| :--- | :--- | :--- |
| Signature Size | Width $\times$ Length <br> Max. $546 \times 330 \mathrm{~mm}$ or $21.496 " \times 12.992^{\prime \prime}$ <br> Min. $128 \times 92 \mathrm{~mm}$ or $5.04 " \times 3.622^{\prime \prime}$ |
| Signature/ <br> Booklet Thickness | Max. 4 mm or $0.15^{\prime \prime}$ |


|  | PR-40S |
| :--- | :--- |
| Signature Size | Maximum Width : 400 mm or $15.74{ }^{\prime \prime}$ <br> Minimum Width : 30 mm or $1.19 "$ <br> Length : 25 mm or $0.99^{\prime \prime}$ |
| *Note that even if the minimum length is 25 mm or 0.99 " or above, depending on <br> the opening amount of the signatures, the signatures can sometimes not be trans- <br> ported or delivered between the upstream/downstream devices. |  |
| Thickness of <br> Folded Piece | Max. 3 mm or $0.12^{\prime \prime}$ |
| Belt Speed | 30 to 180 meters per minute |
| Number of Press <br> Rollers | Press Roller $\times 1$ |
| Voltage/Frequency | Single Phase 200 to $240 \mathrm{~V}, 50$ or 60 Hz |


| ED-40S |  |
| :---: | :---: |
| Signature Size | Maximum Width : 400 mm or $15.74^{\prime \prime}$ <br> Length : 150 mm or $5.90^{\prime \prime}$ <br> Minimum Width : 30 mm or $1.19^{\prime \prime}$ <br> Length : 20 mm or $0.79^{\prime \prime}$ <br> *Note that even if the minimum height is 20 mm or 0.79 " or above, depending on the opening amount of the signatures, the signatures can sometimes not be transported or delivered between the upstream device and the ED-40S. |
| Thickness of Folded Piece | Max. 3 mm or 0.12" |
| Stack Capacity | Max. 395 mm or $15.55{ }^{\text {", Min. }} 5 \mathrm{~mm}$ or 0.20 " |
| Belt Speed | 30 to 160 meters per minute |
| Offset Amount | Minimum Offset: Five sheets |
| Voltage/Frequency | Single Phase 200 to 240 V , 50 or 60 Hz |

*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.

## MORE AT HORIZON.CO.JP

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