## AFC-566FG

## Automation is Power Ultra-fast Changeover Paper Folder



World's First in a folding machine!
Innovative wireless remote with jog dial comes standard.


## Features



# High performance, space efficient fullyautomated cross-knife folding machine. The Horizon AFC-566FG features advanced automation with 15 seconds setup time. 

- 17 fold patterns are set up by simply touching the icon for the desired fold pattern and inputting the sheet size on the large LCD color touchscreen.
- All roller gap settings can be performed automatically through the LCD touchscreen inserting a single sheet at the caliper.
- Standard wireless remote controller for more convenient operation.
- The AFC-566FG is equipped with 6 buckles, 1 cross knife and 2 buckles under the cross knife.
- Fold rollers are constructed with a combination of steel and soft polyurethane for superior grip and sharp, consistent folding.
- Horizon's advanced rotary suction feed system for fast, consistent feeding of a wide range of paper stocks. (42,000 sheets/hr. with A4 parallel fold.)


## End-to-end Automated Setup ( 38 Sections)

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■ Suction Head
- Table Guide
■ Side Lay Guide
■1st Buckle
mnd Buckle
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- 3rd Buckle
-4th Buckle
- 5th Buckle

■6th Buckle

- Knife Stopper
- Knife Guides (Front/Rear)

K1 Buckle Below Knife
■ K2 Buckle Below Knife

- 1st Roller Gap (Front/Rear)

2nd Roller Gap (Front/Rear)

## Intuitive, User-friendly Operation



Setup is completed by selecting the desired fold pattern and inputting the sheet size.


The graphical display provides for easy roller gap adjustment.


The guide and buckle positions can be fine-tuned by 0.1 mm using the + or - button

## Production Speed by Fold Pattern

| Sheet Size | Parallel Fold | Letter Fold | DL Fold | 8-page Cross Fold |
| :---: | :---: | :---: | :---: | :---: |
| A4 | 42,000 | 28,500 | - | - |
| $8.5 " \times 11^{\prime \prime}$ | 45,000 | 30,000 | - | - |
| A3 | 31,000 | 20,500 | 23,000 | 26,000 |
| $11 " \times 17 "$ | 30,000 | 20,000 | 22,500 | 25,500 |
| A2 | 22,500 | 15,000 | - | 19,000 |
| $18 " \times 25 "$ | 21,000 | 14,000 | - | 17,500 |

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- An icon-based color interface provides easy operation. For set-ups, simply select one of 17 common fold patterns from the graphical display and input
sheet size
- Up to 200 job settings can be memorized for quick and easy recall of regular jobs. - Face up or face down can be selected by single touch of the LCD touchscreen. - The forward/backward inch button is
provided for easy sheet removal.
|Buckle Auto (2)

- Specially-coated buckle plates minimiz paper friction to help maintain fold
- All the buckles are set up automatically with precise stepper motor drives for the sheet size and fold pattern selected Each has a simple flip-over deflector.

Roller Gap Caliper 3


[^1] - Precise roller gap adjustment with 0.00 mm accuracy.


## | Sub Operation Panel (4)

- Start, Stop, Inching, Single

Knie-actuation, and
|Feed Table Knob 5


- The feed table knob can adjust the table position to fine-tune the sheet feeding position.

Knife Fold Section Auto 6


- Knife timing and knife angle can be
adjusted easily.
- The servo motor controlled knife can fold up to 26,000 sheets/hr.
- Four transport belts and detented rollers ensure consistent transportation even for two-up application.

Perforation 7


- Perforation slit perforationt soring slitting and strip trimming can be performed inline.
- The perforation shaft is quick and easy to install or detach.
- Perforation shaft lifts up from the scree for easy perforation/scoring positioning

Folding Rollers Auto 8


The uniquely designed $I$ trer soft polyurethane foam rubber and stee। rollers have superior grip for sharp, consistent folding.

- The fold roller system employs helical gears for quiet operation and flexible cross couplings for minimal wear
| Suction Head Auto 0


An innovative detection system is employed for accurate and stable consistent feeding
|Feed Rotor (1)

-Horizon's advanced rotary suction feed system for fast, consistent feeding of a wide range of paper stock.
|Side Lay Guide Auto (11)


- The side lay guide is coated with a
special anti-static plating.
- The newly designed rigid side lay guid ensures accurate and smooth transportation of wide range of paper


## A Wide Range of Optional Units

## Option

## Gluing Unit : CGU-50

The gluing unit can produce 8-page or 12 -page glued booklets.


■ Strip Trim Device : AF-ST5
Strip trimming is available for multiple-up jobs with slitter.


## Blades

A wide variety of optional blades are available for various applications.


■ Gate Fold Buckle : GFB-56
The gate fold buckle can be set up quickly, with no special skill for precise, accurate closed gate folding.


■ Strip \& Edge-Trim Device : CGU-T56F
Center strip trim and edge trim are available under the cross knife. Segmented roller allows flexible cutting position adjustment.


## ■ Front Perforation Unit : FP-56

Perforation can be made before folding. An accurate blade drum provides for high-precision micro perforation. Optional skip perforation is available.


## Edge Trim Device : KT-ET5

A grooved roller is originally equipped below the knife. Simply attach the KT-ET5 to trim the closed side of glued 8 -page signatures to complete the booklet.


## Press Stacker : PST-40

- The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk and tighter fold.
- Signatures can be offset separated individually or by group, depending on your job requirement.
- The height of the press unit is simply adjusted by the remote controller.

- Mobile Knife Fold Unit : MKU-54/54T
- The MKU-54/54T is available as the second knife unit for 2nd cross fold.
- Knife unit reverse function provides flexibility to choose fold-up or fold-down.
- Two buckles below knife can be attached on the MKU-54T. (One buckle is standard.)


## ■ Round Pile Feeder Unit : RFU-54

- The RFU-54 can be attached or detached to the folder without removing the standard flat pile feed table, making it quick and easy to interrupt long runs for a short-run job.
- An error feed tray is equipped for continuous feeding operation.

| AFC-566FG Major Specifications |  |  |  |
| :---: | :---: | :---: | :---: |
| Machine Structure | 6KTT (6 Buckles+Fold Knife+2 Buckles Below Knife) |  |  |
| Max. Sheet Size | $558(\mathrm{~W}) \times 850(\mathrm{~L}) \mathrm{mm}\left(21.965^{\prime \prime} \times 33.460^{\prime \prime}\right)$[AFC-566FGL: $1,100(\mathrm{~L}) \mathrm{mm}\left(43.310^{\prime \prime}\right)$ Factory Option] |  |  |
| Min. Sheet Size | $128(\mathrm{~W}) \times 148(\mathrm{~L}) \mathrm{mm}\left(5.040^{\prime \prime} \times 5.830^{\prime \prime}\right)$ <br> [Side Lay Guide Minimum Set Position : 74(W) mm (3.0")] |  |  |
| Sheet Weight Range | Normal Paper 35 to 244 gsm, Art/Coated Paper 50 to 232 gsm |  |  |
| Buckle Fold Length | 1st Buckle ${ }^{\text {a }}$ |  |  |
|  | 2nd Buckle | 30 to 450 mm (1.2" to 17.7") |  |
|  | 3rd Buckle | 30 to 450 mm (1.2" to 17.7") |  |
|  | 4th Buckle | 30 to 360 mm (1.2" to 14.1") |  |
|  | 5th Buckle | 30 to 450 mm (1.2" to 17.7") |  |
|  | 6th Buckle | 30 to 360 mm (1.2" to 14.1") |  |
|  | K1 Buckle | 30 to 150 mm (1.2" to $\left.5.9^{\prime \prime}\right)$ |  |
|  | K2 Buckle | 30 to 150 mm (1.2" to $\left.5.9^{\prime \prime}\right)$ |  |
| Knife Fold Size | $\begin{aligned} & \text { Max. } 558(\mathrm{~W}) \times 410(\mathrm{~L}) \mathrm{mm}\left(21.9^{\prime \prime} \times 16.1^{\prime \prime}\right) \\ & \text { [Knife Length : } \left.410 \mathrm{~mm}\left(16.1^{\prime \prime}\right)\right] \end{aligned}$ |  |  |
|  | Min. $160(\mathrm{~W}) \times 30(\mathrm{~L}) \mathrm{mm}\left(6.3^{\prime \prime} \times 1.2^{\prime \prime}\right)$$\left[190(\mathrm{~W}) \mathrm{mm}\left(7.5^{\prime \prime}\right)\right.$ with automatic setup] |  |  |
| Feeding Mechanism | Air Suction Rotor \& 2 Cylinder Separator Head (Feed interval and suction time are adjustable.) |  |  |
| Maximum Pile Height | Max. 740 mm (29.1") [within 250 kg ( 551.3 lbs .)] |  |  |
| Belt Speed | 30 to 240 m ( 32 to 261 yd .)/min. [Knife Fold : $200 \mathrm{~m}(218 \mathrm{yd}$.)/min.] |  |  |
| Production Speed | 42,000 sheets/hr. [A4 (8.5" $\times 11^{\prime \prime}$ )-Parallel Fold] |  |  |
|  | 17,000 sheets/hr. [500(W) x 700(L) mm ( $\left.19.7{ }^{\prime \prime} \times 27.6^{\prime \prime}\right)-8$-page Cross Fold] |  |  |
| Standard Fold Roller | Combination of Soft Polyurethane Foam Rubber and Steel Roller |  |  |
|  | Optional side cut blades can be attached to the roller. |  |  |
| Roller Gap Adjustment | Automatic Setting |  |  |
| Slit Perforation | Cut $6 \mathrm{~mm}\left(0.24{ }^{\prime \prime}\right)$, Blank $4 \mathrm{~mm}\left(0.16^{\prime \prime}\right)$ |  |  |
| Perforation | Cut $2.5 \mathrm{~mm}\left(0.1^{\prime \prime}\right)$, Blank $0.8 \mathrm{~mm}\left(0.03^{"}\right)$ [Option : Cut 3.2 mm ( $0.13^{\prime \prime}$ ), Blank $0.8 \mathrm{~mm}\left(0.03^{\prime \prime}\right)$ / Cut $1.4 \mathrm{~mm}\left(0.06^{\prime \prime}\right)$, Blank $0.8 \mathrm{~mm}\left(0.03^{\prime \prime}\right)$ ] |  |  |
|  | Min. Perforation Distance : $40 \mathrm{~mm}\left(1.58^{\prime \prime}\right)$ in one operation |  |  |
|  | Min. Distance from Sheet Edge : 12 mm (0.48") |  |  |
| Scoring | Scoring Width : About 1 mm ( $0.04{ }^{\prime \prime}$ ) (Depends on sheet type) |  |  |
|  | Lower Roller with Soft Polyurethane Foam Rubber |  |  |
| Number of Holders | Standard : 1 Slit Perforation Blade, 2 Perforation Blades |  |  |
|  | Max. 12 blades can be attached. |  |  |
| Automatic Setup | Suction Head, Table Guide, Side Lay Guide, 1st to 6th Buckle, Knife Stopper, Knife Guide (Front/Rear), K1/K2 Buckle Below Knife, Roller Gap (1st to 7th Rollers, Perforation Rollers, Knife Rollers and Rollers Below Knife) |  |  |
| Automatic Setup Accuracy | Setting Accuracy : +/-1 mm, Consistent Accuracy : +/-0.1 mm |  |  |
| Deflectors | 1st to 6th Buckle $\quad$ Buckle Stopper and Deflector |  |  |
|  | K1/K2 Buckle (Below Knife) ${ }^{\text {a }}$ Buckle Stopper and Deflector |  |  |
| Fold Patterns | Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag (4 panel) Fold, Zigzag ( 5 panel) Fold, Letter Fold, Double Parallel Fold, 8-page Cross Fold, 12-page Cross Fold, Zigzag Cross Fold, DL Fold (Letter / Accordion), 16-page Transformation Fold, Zigzag (6 panel) Fold, Zigzag (7 panel) Fold, Roll Fold |  |  |
| Job Memory | 200 Jobs |  |  |
| Vacuum Pump | Flow | $40 \mathrm{~m} / \mathrm{hr}$. |  |
|  | Voltage / Frequency 3-Phase $\nabla \mathbf{2 3 0} / \mathrm{Y} 400 \mathrm{~V}+/-10 \% 50 / 60 \mathrm{~Hz}$ |  |  |
|  | Power Consumption $1.8 / 2.2 \mathrm{~kW}(50 / 60 \mathrm{~Hz}$ ) |  |  |
| Voltage / Frequency | 3-Phase $200 \mathrm{~V}, 50 / 60 \mathrm{~Hz} 220 \mathrm{~V}, 60 \mathrm{~Hz} 400 \mathrm{~V}, 50 \mathrm{~Hz}$ |  |  |
| Rated Current |  |  | 10.4 / 12.6 A |
|  | 3-Phase 220 V |  | 11.5 A |
|  | 3-Phase 400 V | 60 Hz | 5.6 A |
| Power Consumption (Including Pump) | 3-Phase 200 V <br> 3-Phase 220 V <br> 3-Phase 400 V | $50 / 60 \mathrm{~Hz}$ | 3.2 / 4.0 kW |
|  |  | 60 Hz | 4.0 kW |
|  |  | 3-Phase $400 \mathrm{~V} \quad 50 \mathrm{~Hz} \quad 3.2 \mathrm{~kW}$$4,210 \mathrm{~kJ}(1,010 \mathrm{kcal})$ |  |  |
| Heat Output |  |  |  |  |
| Motors | $0.75 \mathrm{~kW} \times 1,0.2 \mathrm{~kW} \times 2,25 \mathrm{~W} \times 1,0.4 \mathrm{~kW} \times 1$ (Servo), $2.2 \mathrm{~kW} \times 1$ (Pump) |  |  |
| Machine Dimensions | Main Body | $2,900(\mathrm{~W}) \times 1,005(\mathrm{D}) \times 1,662(\mathrm{H}) \mathrm{mm}\left(114.2^{\prime \prime} \times 39.6{ }^{\prime \prime} \times 65.5{ }^{\prime \prime}\right)$ |  |
|  |  | $1,320(\mathrm{~W}) \times 600(\mathrm{D}) \times 1,130(\mathrm{H}) \mathrm{mm}\left(52.0{ }^{\prime \prime} \times 23.7{ }^{\prime \prime} \times 44.5^{\prime \prime}\right)$ |  |
| Installation Space | Parallel Fold | 5,450 (W) $\times 3,367$ (D) mm ( $\left.214.6^{\prime \prime} \times 132.6^{\prime \prime}\right)$ |  |
|  | Cross Fold $4,132(\mathrm{~W}) \times 3,857(\mathrm{D}) \mathrm{mm}\left(162.7^{\prime \prime} \times 151.9^{\prime \prime}\right)$ |  |  |
| Noise Level | LAeq : 84.0 dB |  |  |
| Machine Weight | Main Body | 1,091 kg (2,405.3 lbs.) |  |
|  | Conveyor | $50 \mathrm{~kg}(110.3 \mathrm{lbs}$. |  |
|  | Pump | 50 kg (110.3 lbs.) |  |
|  | Transformer | 70 kg (154.4 |  |
| Temperature \& Humidity | Temperature : $0^{\circ} \mathrm{C}$ to $+45^{\circ} \mathrm{C}$, Humidity : $20 \%$ to $75 \% \mathrm{RH}$ |  |  |

${ }^{*}$ The machine design and specifications are subject to change without any notice.

*1 Min. $1,230 \mathrm{~mm}\left(48.5^{\prime \prime}\right)$ to Max. $1,540 \mathrm{~mm}\left(60.7^{\prime \prime}\right)$ when connecting to the parallel folding exit section Min. $1,490 \mathrm{~mm}\left(58.7^{\prime \prime}\right)$ to Max. $1,800 \mathrm{~mm}\left(70.9^{\prime \prime}\right)$ when connecting to the cross folding exit section. *2 Machine dimensions not including the delivery conveyor.

| Options |  |
| :--- | :--- |
| - Gluing Unit : CGU-50 | ■ Blades (Slit/Perforation) |
| - Gate Fold Buckle : GFB-56 | ■ Press Stacker : PST-40 |
| ■ Front Perforation Unit : FP-56 (Factory Option) | ■ Mobile Knife Fold Unit : MKU-54/54T |
| ■ Strip Trim Device : AF-ST5 | ■ Round Pile Feeder Unit : RFU-54 |
| - Strip \& Edge-Trim Device : CGU-T56F | ■ i2i System |
| - Edge Trim Device : KT-ET5 |  |

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[^0]:    Production speeds may differ depending on folder setting or sheet condition.

[^1]:    - All the roller gap sets up instantly by

