AFC-566FKT Major Specifications

- **Output:** 7,500 sheets per hour
- **Application:** Fold, Gate, Cross, Delivered at a time
- **Fold Types:** Parallel, Double, Cross, Gate, Zigzag
- **Fold Patterns:** 17 unique fold patterns can be set up automatically

Machine Dimensions

- **Main Body:** 4,132(W) x 3,857(D) mm (162.7" x 151.9")
- **Conveyor:** 2,900(W) x 1,005(D) x 1,662(H) mm (114.2" x 39.6" x 65.5")
- **Pump:** 50 kg (110.3 lbs.)
- **Strip Trim Device:** AF-ST5
- **Gate Fold Buckle:** GFB-56

**Features**

- **Automation:** Ultra-fast Changeover Paper Folder
- **Touchscreen:** 10.4 inch color touchscreen
- **Innovative wireless remote with jog dial:** Standard
- **Software:** Horizon i2i System (Based on CIP4)

**Supplemental Field Quality**

- **Vacuum Pump:** [MKU-54](https://www.horizon-us.com)
- **Heat Output:** 4,210 kJ (1,010 kcal)
- **LAeq:** 84.0 dB
- **Motors:** 5.6 A
- **Voltage / Frequency:** 3-Phase 400 V (50 Hz)

**Automation is Power**

- **World's First in a folding machine!**

*Trademark of American Soybean Association*
Automation is Power
Ultra-fast Changeover Paper Folder

17 unique fold patterns can be set up automatically.

Advanced remote control enables the on-demand era.

Machine Dimensions
Unit: mm (inch)

Horizon i2i System
Integrated with Pre-Press and Printing

**Machine Design and Specifications**

- High-speed Feeder
- Wireless Remote Controller
- 6 Buckle Plates
- Roll Fold (8-page)
- Parallel Fold
- Cross Fold
- DL Fold (Letter)
- Zigzag (5 panel) Fold
- Zigzag (4 panel) Fold Letter Fold
- 16-page Transformation Fold, Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag Fold (4 panel)

**Fold Patterns**

- DL Fold (Letter)
- Zigzag (4 panel) Fold Letter Fold
- 16-page Transformation Fold, Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag Fold (4 panel)

**Features**

- Wireless Remote Controller to enable the on-demand era.
- Auto Setup Accuracy
- Automatic Setup
- Machine Weight
- Production Speed
- Installation Space (including pump)
- Voltage / Frequency
- Sheet Weight Range
- Buckle Fold Length
- Number of Holders
- Motor
- Deflectors
- Scoring
- Perforation
- Power Consumption
- Transformer
- Page Dimensions: 2441.8x913.9

**Performance and Ease-of-Use**

- Superior Fold Quality is ensured with steel and soft-formed polyurethane combination rollers.
- Super-fast, consistent feeding of a wide range of paper stocks.
- Superior and consistent fold quality is ensured.

**Fold Patterns**

- DL Fold (Letter)
- Zigzag (4 panel) Fold Letter Fold
- 16-page Transformation Fold, Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag Fold (4 panel)

**Automation**

- The graphical interface screen provides icon-based for user-friendly operation.
- The 10.4 inch color touchscreen is for easy adjustment and all other fine-adjustments.

**Pre-Press**

- Automation is key to efficiency in the on-demand era.
- The Horizon i2i system can be integrated with the pre-press and printing.

**System Benefits**

- Automation is Power.
- World’s First in a folding machine.

**Performance**

- The advanced remote control provides a hands-free operation.
- The machine is designed for easy use.

**Machine Design and Specifications**

- High-speed Feeder
- Wireless Remote Controller
- 6 Buckle Plates
- Roll Fold (8-page)
- Parallel Fold
- Cross Fold
- DL Fold (Letter)
- Zigzag (5 panel) Fold

**Fold Patterns**

- DL Fold (Letter)
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- Wireless Remote Controller to enable the on-demand era.
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- Production Speed
- Installation Space (including pump)
- Voltage / Frequency
- Sheet Weight Range
- Buckle Fold Length
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- Perforation
- Power Consumption
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- The graphical interface screen provides icon-based for user-friendly operation.
- The 10.4 inch color touchscreen is for easy adjustment and all other fine-adjustments.

**Pre-Press**

- Automation is key to efficiency in the on-demand era.
- The Horizon i2i system can be integrated with the pre-press and printing.

**System Benefits**

- Automation is Power.
- World’s First in a folding machine.

**Performance**

- The advanced remote control provides a hands-free operation.
- The machine is designed for easy use.
The AFC-566FKT is equipped with 6 Buckle Plates making it more versatile for handling a wider range of fold patterns, ensuring consistent performance and ease-of-use. 

- 6 Buckle Plates
- Wireless Remote Controller
- High-speed Feeder

Under the cross knife, allowing a wide range of fold patterns to be set up automatically. The AFC-566FKT is designed to handle various fold patterns including Cross Fold, 5 panel fold, Zigzag Cross Fold, Parallel Fold, and 8-page Cross Fold, 12-page Cross Fold. 

- Fold patterns: Cross Fold, 5 panel fold, Zigzag Cross Fold, Parallel Fold, 8-page Cross Fold, 12-page Cross Fold
- Fold types: Standard, Double Fold, Cross Fold, 5 panel, Zigzag, Parallel

Moreover, the AFC-566FKT is equipped with a 10.4 inch color touchscreen, providing users with an intuitive interface for setup and operation. The graphical interface screen offers fine-adjustments and superior fold quality. 

- Touchscreen
- 10.4 inch color touchscreen
- Graphical user interface

For ultimate flexibility and efficiency in the on-demand era, the AFC-566FKT can be integrated with pre-press and printing systems, ensuring smooth workflows from start to finish. 

- Integration: Pre-press and printing systems
- Pre-press: CIP4
- Printing: CIP4

Innovative wireless remote technology with jog dial as standard makes it easy to manage fold patterns and settings. The AFC-566FKT is designed for superior detection with double feed detect sensors for accurate paper feeding. 

- Wireless Remote Controller
- Jog dial
- Double feed detect sensors

The AFC-566FKT features a high-speed feeder, allowing for efficient paper handling and feeding. The feeder is designed to handle a variety of paper stocks, including Normal Paper, Art/Coated Paper, and other materials requiring precise handling. 

- Feeding Mechanism
- High-speed Feeder
- Paper Stocks: Normal Paper, Art/Coated Paper
High performance, space efficient fully-automated cross-knife folding machine. The Horizon AFC-566FKT 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 are performed automatically through the LCD touchscreen inserting a single sheet at the time.
- Standard wireless remote control for more convenient operation.
- The AFC-566FKT is equipped with 4 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 smooth, consistent folding.
- Horizon's advanced inkjet action feed system for fast, consistent feeding of a wide range of paper stocks, 34-00200mm, with an Option 500.
- Intuitive, User-friendly Operation
  - Control Panel
  - Buckle
  - Roller Gap Caliper
  - Feed Table Knob
  - Knife Fold Section
  - Perforation
  - Folding Roller
  - Side Lay Guide

Production Speed by Fold Pattern

<table>
<thead>
<tr>
<th>Sheet Size</th>
<th>Parallel Fold</th>
<th>Letter Fold</th>
<th>DL Fold</th>
<th>21,000</th>
<th>22,500</th>
<th>30,000</th>
<th>31,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5&quot; x 11&quot;</td>
<td>21,000</td>
<td>22,500</td>
<td>30,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11&quot; x 17&quot;</td>
<td></td>
<td>20,000</td>
<td>22,500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3</td>
<td></td>
<td>17,500</td>
<td>22,500</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A4</td>
<td></td>
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</tr>
</tbody>
</table>

- End-to-end Automated Setup (38 Sections)
- All the buckles are set up automatically.
- Roller gap sets up instantly by automatic adjustment through the LCD touchscreen inserting a single sheet at the time.
- An icon-based color interface provides easy roller gap adjustment.
- The guide and buckle positions can be fine-tuned by 0.1 mm using the + and - keys.
- The uniquely designed combination of steel and soft polyurethane rollers have superior grip for sharp, precise, accurate closed gate folding.
- Easy roller gap adjustment.
- Knife timing and knife angle can be adjusted by the remote controller.
- All the roller gap sets up instantly by automatic adjustment through the LCD touchscreen inserting a single sheet at the time.
- An innovative detection system is available for various applications.
- The uniquely designed combination of steel and soft polyurethane rollers have superior grip for sharp, precise, accurate closed gate folding.
- Production speeds may differ depending on folder setting or sheet condition.
- The forward/backward inch button is available for two-up application.

A Wide Range of Optional Units

- Round Pile Feeder Unit: RFU-54
- Strip & Edge-Trim Device: CGU-T56F
- Edge Trim Device: KT-ET5
- Strip Trim Device: AF-ST5
- Gluing Unit: CGU-50
- Gluing Unit Controller: CGU-50K
- Press Washer: PST-40
- Two Buckle Buckle Unit: MKU-54
- Gluing Unit: CGU-50
- Round Pile Feeder Unit: RFU-54
- Strip & Edge-Trim Device: CGU-T56F
- Edge Trim Device: KT-ET5
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- Gluing Unit: CGU-50
- Gluing Unit Controller: CGU-50K
- Press Washer: PST-40
- Two Buckle Buckle Unit: MKU-54
- Gluing Unit: CGU-50
High performance, space efficient fully-automated cross-knife folding machine. The Horizon AFC-566FKT features advanced automation with 15 seconds setup time.

- All fold patterns are set up by simply touching the icon for the desired fold pattern and inputting the sheet size on the single LCD color touchscreen.
- All roller gap settings are performed automatically through the LCD touchscreen inserting a single sheet at the saddle.
- Standard wireless remote controller for more convenient operation.
- The AFC-566FKT is equipped with 8 sections, 1 cross-knife and 2 buckles under the cross-knife.
- Fold rollers are coordinated with combination of steel and soft polyethylene 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, 96,000 sheets/hr. with A4 paper size (1)

End-to-end Automated Setup (38 Sections)

Intuitive, User-friendly Operation

Production Speed by Fold Pattern

Roller Gap Caliper

Feed Table Knobs

Knife Fold Section

Perforation

Folding Rollers

Side Lay Guide

Control Panel

- Folded paper is set up by simply touching the icon for the desired fold pattern and inputting the sheet size on the single LCD color touchscreen.
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- Horizon's advanced rotary suction feed system for fast, consistent feeding.

Intuitive, User-friendly Operation

End-to-end Automated Setup (38 Sections)

Intuitive, User-friendly Operation

Production Speed by Fold Pattern

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- Fold rollers are coordinated with combination of steel and soft polyethylene for superior grip and sharp, consistent folding.
- Horizon's advanced rotary suction feed system for fast, consistent feeding.

Intuitive, User-friendly Operation

Production Speed by Fold Pattern

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- Folded paper is set up by simply touching the icon for the desired fold pattern and inputting the sheet size on the single LCD color touchscreen.
- All roller gap settings are performed automatically through the LCD touchscreen inserting a single sheet at the saddle.
- Standard wireless remote controller for more convenient operation.
- The AFC-566FKT is equipped with 8 sections, 1 cross-knife and 2 buckles under the cross-knife.
- Fold rollers are coordinated with combination of steel and soft polyethylene for superior grip and sharp, consistent folding.
- Horizon's advanced rotary suction feed system for fast, consistent feeding.
High performance, space efficient fully-automated cross-knife folding machine. The Horizon AFC-566FKT features advanced automation with 15 seconds setup time.

- 7 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 are performed automatically through the LCD touchscreen inserting a single sheet at the guider. 
- Standard wireless remote control for more convenient operation. 
- The AFC-566FKT is equipped with 1 buckles, 7 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.) 
- Precise roller gap adjustment with 0.005 mm accuracy. 
- An innovative detection system is provided for easy sheet removal. 
- Perforation can be made before folding. An accurate blade drum is available. 
- Precise, accurate closed gate folding. 
- Ink pocketing can be done by guide plate. 
- Compress the signatures for reduced bulk and tighter fold. 
- Signatures can be offset separated individually or by group, depending on your job requirement. 
- The newly designed rigid side lay guide ensures accurate and smooth paper friction to help maintain fold accuracy. 
- Specially-coated buckle plates minimize paper friction to help maintain fold accuracy. 
- The uniquely designed combination of soft polyurethane foam rubber and steel rollers have superior grip for sharp, consistent folding.

### Production Speed by Fold Pattern

<table>
<thead>
<tr>
<th>Fold Pattern</th>
<th>Production Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter Fold</td>
<td>15,000</td>
</tr>
<tr>
<td>DL Fold</td>
<td>20,000</td>
</tr>
<tr>
<td>8-page Cross Fold</td>
<td>20,500</td>
</tr>
<tr>
<td>8-page Gate Fold</td>
<td>25,500</td>
</tr>
<tr>
<td>11&quot; x 17&quot;</td>
<td>22,500</td>
</tr>
<tr>
<td>5&quot; x 8½&quot;</td>
<td>23,000</td>
</tr>
<tr>
<td>5½&quot; x 8½&quot;</td>
<td>30,000</td>
</tr>
</tbody>
</table>

### A Wide Range of Optional Units

- **Gluing Unit** : MXJ-5664T
- **Side Lay Guide** : KT-ET5
- **Front Perforation Unit** : FP-56
- **RFU-54**
- **Perforation Blade** : 2.5 x 0.8
- **Slit Perforation Blade** : 6 x 4
- **Scoring Blade**
- **Strip & Edge-Trim Device** : CGU-T56F
- **Gate Fold Buckle** : GFB-56
- **Envelope Feeder Unit** : RFU-54
- **Press Washer : PST-40**
- **Buckles**
- **Side Lay Guides**

### Intuitive, User-friendly Operation

- Intuitive, user-friendly operation.
- Paper handling knobs allow easy setting of the roller gap position.
- Precise roller gap adjustment with 0.005 mm accuracy.
- Buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- The guide and buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- An icon-based color interface provides easy operation. For set-ups, simply select one of 17 common fold patterns for quick and easy recall of regular jobs.
- An innovative detection system is provided for easy sheet removal.
- Side lay guide is equipped for micro screw feeding operation.

### End-to-end Automated Setup

<table>
<thead>
<tr>
<th>Sub-Operation Panel</th>
<th>Main Operation Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckle Set</td>
<td>Feed Table Knob</td>
</tr>
<tr>
<td>Knife Fold Section</td>
<td>Sub-Operation Panel</td>
</tr>
<tr>
<td>Perforation</td>
<td>Folding Rollers</td>
</tr>
<tr>
<td>Side Lay Guide</td>
<td>Control Panel</td>
</tr>
</tbody>
</table>

### Control Panel

- An icon-based color interface provides easy operation. For set-ups, simply select one of 17 common fold patterns for quick and easy recall of regular jobs.
- Buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- The guide and buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- An innovative detection system is provided for easy sheet removal.
- The feed table knob can adjust the table height up to 26,000 sheets/hr.

### Fold Pattern

- Letter Fold : 15,000
- DL Fold : 20,000
- 8-page Cross Fold : 20,500
- 8-page Gate Fold : 25,500
- 11" x 17" : 22,500
- 5" x 8½" : 23,000
- 5½" x 8½" : 30,000

### Fold Rollers

- 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.)
- Precise roller gap adjustment with 0.005 mm accuracy.
- An innovative detection system is provided for easy sheet removal.

### Buckle

- Buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- The guide and buckle positions can be fine-tuned by 0.1 mm using the + or – button.
- An innovative detection system is provided for easy sheet removal.
- The feed table knob can adjust the table height up to 26,000 sheets/hr.
High performance, space efficient fully-automated cross-knife folding machine. The Horizon AFC-566FKT features advanced automation with 15 seconds setup time.

- Four 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-566FKT is equipped with 11 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. (4200 sheets with 450gsm stock)

End-to-end Automated Setup (38 Sections)

Intuitive, User-friendly Operation

- Precise roller gap adjustment with 0.005 inch resolution.
- Specially-coated buckle plates minimize paper friction to help maintain fold accuracy.
- Paper perforation shaft is quick and easy to lift up from the screen for two-up application.
- The newly designed rigid side lay guide ensures accurate and smooth transportation even for two-up application.
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- The feed table knob can adjust the table position to fine-tune the sheet feeding position.
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- Four transport belts and detented rollers ensure consistent transportation even for two-up application.
- The perforation shaft is quick and easy to lift up from the screen for two-up application.
- The newly designed rigid side lay guide ensures accurate and smooth transportation even for two-up application.
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A Wide Range of Optional Units

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Production Speed by Fold Pattern

- Production speeds may differ depending on folder setting or sheet condition.
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Intuitive, User-friendly Operation

- Face up or face down can be selected by for quick and easy recall of regular jobs.
- Up to 200 job settings can be memorized from the graphical display and input selected one of 17 common fold patterns for two-up application.
- The MKU-54/54T is available as the second knife unit for multiple-up jobs with slitter.
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Intuitive, User-friendly Operation

- Face up or face down can be selected by for quick and easy recall of regular jobs.
- Up to 200 job settings can be memorized from the graphical display and input selected one of 17 common fold patterns for two-up application.
- The MKU-54/54T is available as the second knife unit for multiple-up jobs with slitter.
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Ultra-fast Changeover Paper Folder

Automation is Power

AFC-566FKT

Features

- Automated Folder
- Color LCD Touchscreen
- Superior Field Quality

Machine Dimensions

- **Main Body**
  - 5,450(W) x 3,367(D) mm (214.6” x 132.6”)
  - 1,320(W) x 600(D) x 1,130(H) mm (52.0” x 23.7” x 44.5”)
- **Conveyor**
  - 4,374 (172.3”)
  - 400 (15.7”)
- **Transformer**
  - 4.0 kW

**Power Consumption**

- 0.75 kW x 1, 0.2 kW x 2, 25 W x 1, 0.4 kW x 1 (Servo), 2.2 kW x 1 (Pump)

**Rated Current**

- 3-Phase 400 V
- 3-Phase 220 V
- 3-Phase 200 V

**Min. Sheet Size**

- 558(W) x 850(L) mm (21.9” x 33.4")
- 1st Buckle
- 2nd Buckle
- 3rd Buckle
- 4th Buckle
- 5th Buckle
- 6th Buckle

**Belt Speed**

- 42,000 sheets/hr. [A4 (8.5” x 11")-Parallel Fold]
- 30 to 240 m (32 to 261 yd.)/min. [Knife Fold : 200 m (218 yd.)/min.]

**Fold Patterns**

- Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag (4 panel)
- (5 panel) Fold
- (6 panel) Fold
- Zigzag (7 panel) Fold
- Letter Fold
- DL Fold (Letter / Accordion), 16-page Transformation Fold,
  8-page Cross Fold, 12-page Cross Fold, Zigzag Cross

**Optional Side Cut Blades**

- Can be attached to the roller.

**Specifications**

- **Fold Patterns**
  - Can be set up automatically.
  - 17 unique fold patterns can be set up automatically.

**Machine Structure**

- Belt Speed
- Perforation
- Min. Perforation Distance: 40 mm (1.58") in one operation
  - Cut 1.4 mm (0.06"), Blank 0.8 mm (0.03")
  - Min. Distance from Sheet Edge: 12 mm (0.48")
- Automatic Setting
- Optional side cut blades can be attached to the roller.

**Options**

- Round Pile Feeder Unit: RFU-54
- Mobile Knife Fold Unit: MKU-54/54T
- Strip Trim Device: AF-ST5
- PST-40

**I2i System**

- The Horizon i2i system can be integrated with pre-press and printing systems to enable the creation of unique digital files. It can be linked to a Creative Gateway WorkFlow or i2i Net>Work>Flow for ultimate flexibility and customization to your digital needs.

**Dimensions not including the delivery conveyor.**

**Temperature & Humidity**

- Machine Dimensions
- Power Consumption
- Rated Current
- Min. Sheet Size
- Belt Speed
- Fold Patterns
- Specifications