Graphical user interface for intuitive operation

Flexible modular concept increases folding capabilities

Fully-automated setup increases efficiency and quality

JDF workflow compatibility

Features

Graphical user interface for intuitive operation

Flexible modular concept increases folding capabilities

Fully-automated setup increases efficiency and quality

JDF workflow compatibility

AF-566T4F

Modular fully-automated folding machine. 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.

- The folder is designed with Horizon’s “Intelligent automation” concept which boasts the finishing market with advanced automation, bringing dramatic improvements in productivity and efficiency to the folding industry.
- The folder is easy and intuitive to setup, corner and to simplify complex fold patterns. Operators can change the station or functions on the dual station can be combined as needed.
- The folder can achieve a shorter make-ready with accurate and advanced automation.

AF-566T4F Major Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Distance from Sheet Edge</td>
<td>12 mm (0.48&quot;)</td>
</tr>
<tr>
<td>Min. Perforation Distance</td>
<td>20 mm (0.79&quot;) in one operation</td>
</tr>
<tr>
<td>Min. Scoring Distance</td>
<td>20 mm (0.79&quot;) in one operation</td>
</tr>
<tr>
<td>(Feed interval and suction time are adjustable.)</td>
<td></td>
</tr>
<tr>
<td>5th Buckle</td>
<td>30 to 450 mm (1.180&quot; to 17.720&quot;)</td>
</tr>
<tr>
<td>3rd Buckle</td>
<td>30 to 450 mm (1.180&quot; to 17.720&quot;)</td>
</tr>
<tr>
<td>2nd Buckle</td>
<td>30 to 450 mm (1.180&quot; to 17.720&quot;)</td>
</tr>
<tr>
<td>1st Buckle</td>
<td>30 to 450 mm (1.180&quot; to 17.720&quot;)</td>
</tr>
<tr>
<td>Cut</td>
<td>1.4 mm (0.06&quot;), Blank 0.8 mm (0.03&quot;)</td>
</tr>
<tr>
<td>Blank</td>
<td>Cut 6 mm (0.24&quot;), Blank 4 mm (0.16&quot;) (Standard)</td>
</tr>
<tr>
<td>Setting Dimension</td>
<td>+/-1 mm</td>
</tr>
<tr>
<td>Consistent Accuracy</td>
<td>+/-0.1 mm</td>
</tr>
<tr>
<td>Roller Gap Adjustment</td>
<td>16 sections in total</td>
</tr>
<tr>
<td>1st to 6th Buckle</td>
<td>Buckle Stopper and Deflector</td>
</tr>
<tr>
<td>Suction Head, Table Guide, Side Lay Guide,</td>
<td></td>
</tr>
<tr>
<td>Roller Gap Adjustment</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>1.8 / 2.2 kW (50 / 60 Hz)</td>
</tr>
<tr>
<td>Voltage / Frequency</td>
<td>3-Phase 400 V, 50 / 60 Hz, 4.9 / 5.5 A</td>
</tr>
<tr>
<td>Number of Holders</td>
<td>Standard : 3 (2 for Scoring and 1 for Perforation)</td>
</tr>
<tr>
<td>Machine Dimensions</td>
<td>3,130(W) x 2,280(D) x 1,600(H) mm (123.3&quot; x 89.8&quot; x 63.0&quot;)</td>
</tr>
<tr>
<td>Machine Weight</td>
<td>467 kg (1,029.7 lb)</td>
</tr>
<tr>
<td>Heat Output</td>
<td>3-Phase 200 V, 50 / 60 Hz, 1.8 / 2.2 A</td>
</tr>
<tr>
<td>Belt Speed</td>
<td>3-Phase 220 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Scoring Width</td>
<td>About 1 mm (0.04&quot;) (Depends on sheet type)</td>
</tr>
<tr>
<td>Min. Distance from Sheet Edge</td>
<td>12 mm (0.48&quot;)</td>
</tr>
<tr>
<td>Max. Pile Height</td>
<td>5,740(W) x 2,050(D) mm (226.0&quot; x 80.8&quot;)</td>
</tr>
<tr>
<td>Vacuum Pump</td>
<td>61 kg (134.5 lb), Transformer : 70 kg (154.3 lb)</td>
</tr>
<tr>
<td>Temperature &amp; Humidity</td>
<td>C to +40, Humidity : 20 % to 75 %RH</td>
</tr>
<tr>
<td>Skewed Folding Detector</td>
<td></td>
</tr>
<tr>
<td>Edge Trim Device</td>
<td>AF-ET5N</td>
</tr>
<tr>
<td>Strip Trim Device</td>
<td>AF-ST5N</td>
</tr>
<tr>
<td>i2i System</td>
<td></td>
</tr>
<tr>
<td>Standing Delivery Unit</td>
<td>ED-40</td>
</tr>
<tr>
<td>Image Checking System</td>
<td>CCD-AFC/AF</td>
</tr>
<tr>
<td>Skewed Folding Detector</td>
<td></td>
</tr>
<tr>
<td>Edge Trim Device</td>
<td>AF-ET5N</td>
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<tr>
<td>Strip Trim Device</td>
<td>AF-ST5N</td>
</tr>
<tr>
<td>(Scoring/Slit Perforation/Slitter/Perforation Blade)</td>
<td></td>
</tr>
<tr>
<td>Front Perforation Unit</td>
<td>FP-56</td>
</tr>
<tr>
<td>Punch Perforation Kit</td>
<td></td>
</tr>
<tr>
<td>Gate Fold Buckle</td>
<td>GFB-56</td>
</tr>
<tr>
<td>Horizon</td>
<td></td>
</tr>
</tbody>
</table>

Horizon INTERNATIONAL INC.

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Machine Structure

- This folder is designed with Horizon’s “Intelligent automation” concept which boasts the finishing market with advanced automation, bringing dramatic improvements in productivity and efficiency to the folding industry.
- The folder is easy and intuitive to setup, corner and to simplify complex fold patterns. Operators can change the station or functions on the dual station can be combined as needed.
- The folder can achieve a shorter make-ready with accurate and advanced automation.
**Features**

- Graphical user interface for intuitive operation
- 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.
- Fully-automated setup increases efficiency and quality
- Flexible modular concept increases folding capabilities
- JDF workflow compatibility
- Accurate and advanced automation.
- Reduce paper waste and energy consumption and achieve a short make-ready with accurate and advanced automation.

**Fully-automated setup increases efficiency and quality**

- 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.
- Accurate and advanced automation.

**Flexible modular concept increases folding capabilities**

- 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.

**JDF workflow compatibility**

- Accurate and advanced automation.
- Reduce paper waste and energy consumption and achieve a short make-ready with accurate and advanced automation.
Features

Graphical user interface for intuitive operation.

Fully-automated setup increases efficiency and quality. All sections including the roller gaps are fully automated through the color touch-screen.

Flexible modular concept increases folding capabilities. A 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications. Forward, single, double, parallel, corner, and reverse fold patterns can be programmed and saved for future use

JDF workflow compatibility. Connected and shared print technologies ensure total automation in the printing process. The folder can be used in both Horizon’s JDF interconnect and non-JDF environments. In a JDF environment, files can be sent directly to the folder from the printer or its RIP, or via JDF automation.

Fully-automated folding machine.

The folder is easy and intuitive to set-up, even without a skilled operator, thanks to the intelligent automation and user-friendly design.

Horizon AF-566T4F

Modular fully-automated folding machine. 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.

- This folder is designed with Horizon’s ‘Intelligent Automation’ concept which boosts the finishing process with advanced automated solutions, bringing dramatic improvements in productivity and efficiency to the bindery.
- The folder is easy and intuitive to set-up, even without a skilled operator, thanks to the intelligent automation and user-friendly design.
- All sections including the roller gaps are fully automated through the color touch-screen.
- Modular concept allows for flexible configuration and handles simple to complex fold patterns. Foldable on the 1st station and all sections on the 2nd station can be customized as needed.
- Reduced labor and energy consumption and achieves a smooth trade-ready with accurate and advanced automation.
Double Counter detection. Sensors come standard for superior photoelectronic double feed detection.

Speed feeding (42,000 sheets/hr.) without the suction head can be adjusted. Blowing air volume and height of pick-up provide accurate sheet separation and adjustments and all other fine-adjustments.

Graphical interface screen provides icon-based for user-friendly operation. The feeder and delivery sections. This double counter comes standard at both jobs that require accurate counting. Reliable counting mechanism helps with the feeder and delivery sections. This double counter comes standard at both double counter comes standard at both

When static electricity can be a problem. Of printed sheets, even in dry climates, ensures stable transportation and accurate precision and quiet operation. Helical gears for maximum folding capability ensures consistent and accurate folding.

Two configurations allow for a wide variety of fold patterns. Superior sheet aligning perforation. Closed side of glued signatures and punch perforation. Skip perforation unit provides for high-precision micro perforation. An accurate blade drum perforation. This unit permits perforating before closure. Glue gun *The front perforation unit is a factory option.

Fine-adjustment or specific setup is sheet size set on the touch panel. Scoring position can be set easily the knife (one buckle is standard). Two buckles can be attached below the knife for 16-page folds. The MKU-54T is available as the mobile knife fold unit.

The MKU-54 is available as the mobile knife fold unit. Mobile knife fold unit : MKU-54

The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility.

Option

A remote control provides group, depending on job powerfully compress the signatures for reduced bulk. The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk. The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk.

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The MKU-54 is available as the mobile knife fold unit. Mobile knife fold unit : MKU-54

The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility.

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The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility.

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The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility. The knife unit can pivot 180 degrees flexibility.

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A remote control provides group, depending on job powerfully compress the signatures for reduced bulk. The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk. The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk.
Short make-ready with fully-automated set-up including roller gap adjustment

Feed Rotor

Double Counter

Side Lay Guide

Folding Rollers

Perforation / Scoring

Right Angle Conveyor

Delivery Conveyor

Buckle

A Wide Range of Optional Units

- Right Angle 6+4-buckle

- Mobile Knife Fold Unit : MKU-54T

- Gate Fold Buckle : GFB-56

- Glue Gun *The front perforation unit is a factory option.

- Mobile Roller Feed Unit : MRF-54

- Mobile Roller Feed Unit : MRG-45T

- Mobile rollers are employed for consistent folding and simple setup.

- Two buckles can be attached below the gate fold buckle to allow fold-up or fold-down perforation. Skip perforation unit (FSP-56) is also available.

- A wide variety of optional blades are available for various applications. A maximum of 12 blades can be attached. The MKU-54T is available as the second knife unit for 16-page folds.

- Mobile Knife Fold Unit : MKU-54

- Two configurations allow for a wide variety of accuracy.

- The knife unit can pivot 180 degrees for maximum flexibility.

- Optional standing delivery unit is required to connect the ED-40.

- Optional devices are available for strip trimming in the parallel fold section can be performed using slitters for multiple-up jobs. Stripped width can be adjusted. (3 mm to 10 mm at 1 mm intervals)

- Optional standing delivery unit : ED-40

- Mobile roller feed unit includes batch counting for small size stacks. This unit permits perforating before folding. An accurate blade drum ensures stable transportation and accurate folding. The gate fold buckle can be set up precisely, accurately closed-gate folding.

- Mobile roller feed unit : MRF-54

- Mobile roller feed unit : MRG-45T

- A remote control provides flexibility.

- Complex fold patterns can be performed using this configuration.

- High torque continuous-duty motor is used for folding setup, speed adjustments and all other fine-adjustments.

- Right Angle Conveyor : AF-566F Right Angle+Conveyor+RFU-54

- For multiple-up jobs. Stripped width can be adjusted. (3 mm to 10 mm at 1 mm intervals)

- The RFU-54 can be attached or detached to the folder without removing the standard flat pile feed table, making it simple adjustment of the press unit height.

- A remote control provides flexibility.

- System Configurations

- Configuration 1

- Configuration 2

- Machine Dimensions [Unit : mm (inch)]

- A press stacker includes configured for brochures or hybrid feeding.

- Glue Gun *The front perforation unit is a factory option.

- Optional standing delivery unit is required to connect the ED-40.
Short make-ready with fully-automated set-up including roller gap adjustment

**System Configurations**

**Configuration 1**
- AF-566F
- T-564F
- Right Angle Conveyor
- Mobile Knife Fold Unit: MKU-54
- Gluing Unit: CGU-50/CGU-K56
- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
-ur Perforation Unit: FP-56
- Slit Perforation Blade 6 x 4
- Scoring Blade
- Slitter Blade 1.4 x 0.8

**Configuration 2**
- AF-566F
- T-564F
- Right Angle Conveyor
- Mobile Knife Fold Unit: MKU-54T
- Gluing Unit: CGU-50/CGU-K56
- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
- Front Perforation Unit: FP-56 (FSP-56)
- Slit Perforation Blade 6 x 4
- Scoring Blade
- Slitter Blade 1.4 x 0.8

**Configuration 3**
- AF-566F
- T-564F
- Right Angle Conveyor + RFU-54
- Mobile Knife Fold Unit: MKU-54
- Gluing Unit: CGU-50/CGU-K56
- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
- Front Perforation Unit: FP-56 (FSP-56)
- Slit Perforation Blade 6 x 4
- Scoring Blade
- Slitter Blade 1.4 x 0.8

**A Wide Range of Optional Units**

- **Mounting Unit**
  - DA-MT-5700
  - DA-MT-6000

- **Feeding Unit**
  - UR-56
  - UR-56E

- **Perforation Unit**
  - SM-P-56
  - SM-P-56E

- **Buckle Unit**
  - GFB-56

- **Scoring Design Unit**
  - SC-200

- **Trimmer**
  - MKD-40

- **Gate Fold Buckle**
  - GFB-56

- **Double Counter**

- **Color LCD Touch-screen**

- **Delivery Conveyor**

- **Folding Rollers**

- **Punching / Scoring**

- **Buckle**

- **Side Lay Guide**

- **Right Angle Conveyor**

- **Feeding Rotor**

- **Suction Head / Assist Air**

- **Double Counter**

- **Side Lay Guide**

- **Folding Rollers**

- **Perforation / Scoring**

- **Right Angle Conveyor**

**Machine Specifications**

**Machine Dimensions [Unit: mm (inch)]**
- AF-566F
  - (89.6") x 2,274 (89.6")
  - (78.7") x 1,997 (78.7")
  - (600 (23.7") x 1,350 (53.2")

- T-564F
  - (89.6") x 2,612 (102.9")
  - (78.7") x 2,026 (79.8")
  - (600 (23.7") x 1,350 (53.2")

- AF-566F + T-564F
  - (2,626 (103.4") x 3,596 (141.6")

**System Configurations**

**Configuration 1**
- AF-566F + T-564F Right Angle Conveyor
- Mobile Knife Fold Unit: MKU-54
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- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
- Front Perforation Unit: FP-56 (FSP-56)
- Slit Perforation Blade 6 x 4
- Scoring Blade
- Slitter Blade 1.4 x 0.8

**Configuration 2**
- AF-566F + T-564F Right Angle Conveyor
- Mobile Knife Fold Unit: MKU-54T
- Gluing Unit: CGU-50/CGU-K56
- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
- Front Perforation Unit: FP-56 (FSP-56)
- Slit Perforation Blade 6 x 4
- Scoring Blade
- Slitter Blade 1.4 x 0.8

**Configuration 3**
- AF-566F + T-564F Right Angle Conveyor + RFU-54
- Mobile Knife Fold Unit: MKU-54
- Gluing Unit: CGU-50/CGU-K56
- Scoring Navigator: AF-SN56
- Trim Stacker: PST-40
- Gluing Unit Controller: GLU-50
- Buckle: GFB-56
- Mobile Feeder: MFL-56
- Front Perforation Unit: FP-56 (FSP-56)
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- Scoring Blade
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- Designed to reduce energy consumption and achieves a shut make-ready with accurate and advanced automation.

Features
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