

## 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 "think intelligent automation." concept which leads the finishing market 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. 6-buckles on the 1st station and 4-buckles on the 2nd station can be combined as needed.
- Reduce paper waste and energy consumption and achieve a short make-ready with accurate and advanced automation.



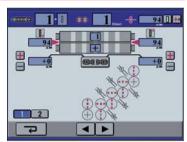
## **Features**

## Graphical user interface for intuitive operation

A large, color touch-screen control panel is icon-based for user-friendly operation. The graphical touch-screen guides the user through all set-up procedures with ease, and allows fast, easy navigation for all other system operations.



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



The graphical display makes roller gap adjustment very simple.

## Fully-automated setup increases efficiency and quality

42 sections are automatically setup by inputting the sheet size and fold pattern through the touch-screen. Fully-automated setup enables any operator to produce consistent, high quality folding applications.

#### **Automated Setup**

#### AF-566F (25 sections in total)

- 5th Buckle ■ 1st Buckle
- 2nd Buckle
  - 6th Buckle
- 3rd Buckle ■ 4th Buckle
- Table Guide
- Roller Gap Adjustment ■ Suction Head
  - (16 sections)

■ Side Lay Guide



- 1st Buckle ■ 3rd Buckle
- 2nd Buckle ■ 4th Buckle
- Side Lay Guide
- Roller Gap Adjustment (12 sections)



**Buckle Section** 



Roller Gap Adjustment

## Flexible modular concept increases folding capabilities

6+4-buckle modular concept allows for simple to complex fold patterns that maximize folding variations. Cross folding can be performed with the 6+4-buckle modular at a right angle. Thick or digitally-printed sheets can be scored on the 1st station and folded on the 2nd station to prevent image cracking. With the 6+4-buckle connected straight, zigzag (22 panel) folding can be performed.





AF-566F+T-564F Straight Configuration+Conveyor

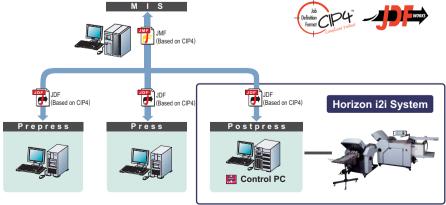
## JDF workflow compatibility

📕 i2i System

Option

Advanced and diverse print technology requires total optimization in the printing process. The AF-566T4F can be enhanced with Horizon's unique network flow system (i2i System) to allow postpress management or JDF workflow formulation through prepress, press and postpress.





## Color LCD Touch-screen 1



The 10.4 inch color touch-screen is icon-based for user-friendly operation. The graphical interface screen provides intuitive operation for folding setup, speed adjustments and all other fine-adjustments.

## Suction Head / Assist Air 2



Innovative suction head and assist air provides accurate sheet separation and pick-up. Blowing air volume and height of the suction head can be adjusted according to a sheet's condition for stable feeding of a wide variety of sheets.

# Short make-ready with fully-automated set-up including roller gap adjustment



## Delivery Conveyor 10



Conveyor height is easily adjusted to the proper sheet delivery height.

## Buckle 9



Buckle stopper and deflector switching can be done automatically for efficient operation. Specially-coated buckle plates minimize paper friction to maintain fold accuracy.

## Feed Rotor 3



Quality polyurethane rotor provides high speed feeding (42,000 sheets/hr.) without scratching. The supersonic and photoelectronic double feed detect sensors come standard for superior detection.

## Double Counter 4



Double counter comes standard at both the feeder and delivery sections. This reliable counting mechanism helps with jobs that require accurate counting control.

## Side Lay Guide 6



Newly-designed rigid side lay guide ensures stable transportation and accurate registration of a wide range of paper stocks. The side lay guide is coated with a special anti-static plating, for trouble-free operation of printed sheets, even in dry climates, when static electricity can be a problem.

## Folding Rollers 6



The combination soft polyurethane foam rubber and steel rollers are employed for consistent folding and simple setup. Folding rollers are driven with accurate helical gears for maximum folding precision and quiet operation.

## Perforation / Scoring 🕜



Perforation, slit perforation, scoring and slitting can be performed. Durable scoring unit is employed for accurate scoring. Optional devices are available for strip trimming of multiple-up jobs, trimming the closed side of glued signatures and punch perforation.

## Right Angle Conveyor 8



Two configurations allow for a wide variety of fold patterns. Superior sheet aligning capability ensures consistent and accurate folding.

## A Wide Range of Optional Units Option

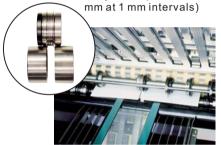
### ■ Gluing Unit: CGU-50/CGU-K56

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



### ■ Strip Trim Device : AF-ST5N

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



#### ■ Gate Fold Buckle: GFB-56

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



#### ■ Scoring Navigator : AF-SN56

Scoring position can be set easily depending on the fold pattern and sheet size set on the touch panel. Fine-adjustment or specific setup is memorized with a unique laser positional memory.



#### ■ Front Perforation Unit: FP-56 (FSP-56)

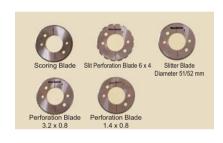
This unit permits perforating before folding. An accurate blade drum provides for high-precision micro perforation. Skip perforation unit (FSP-56) is also available.



\*The front perforation unit is a factory option.

#### ■ Blades

A wide variety of optional blades are available for various applications. A maximum of 12 blades can be attached.



#### ■ Standing Delivery Unit: ED-40

Optional standing delivery unit is available for small size stacks. This stacker includes batch counting for off-set stacking.



## ■ Mobile Knife Fold Unit: MKU-54

- The MKU-54 is available as the second knife unit for 16-page folds.
- The knife unit can pivot 180 degrees to allow fold-up or fold-down flexibility.



#### ■ Mobile Knife Fold Unit: MKU-54T

- The MKU-54T is available as the second knife unit for 16-page folds.
- Two buckles can be attached below the knife (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



#### ■ Press Stacker : PST-40

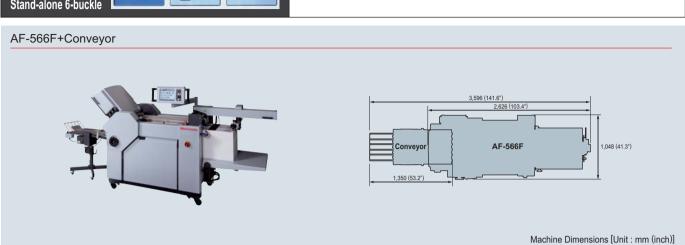
- The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk and tighter folds.
- Signatures can be offset separated individually or by group, depending on job requirements.
- A remote control provides simple adjustment of the press unit height.



## **System Configurations**

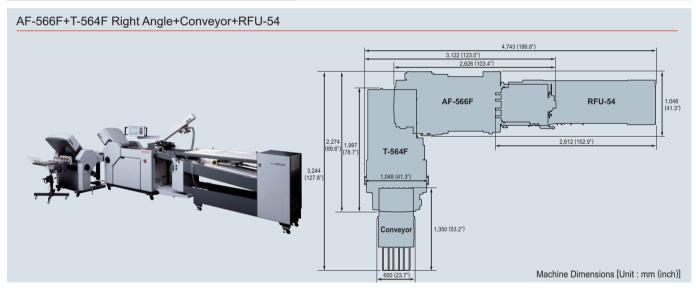


Stand-alone 6-buckle configuration for brochure or leaflet folding.



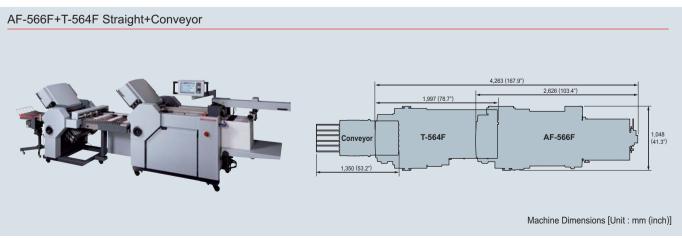


6+4-buckle modular system with the right angle conveyor for 8-page signature and DL folding. This configuration also allows scoring on the first station and folding on the second station for heavier weight stocks.





Straight 6+4-buckle modular system for maximum 10-buckle operation. Complex fold patterns can be performed using this configuration.



AF	-566F Ma	ijor Specifications	
Machine Structure	6 Buckles		
	6 Buckles  Max. 558(W) x 865(L) mm (21.970" x 34.000")		
Sheet Size	Min. 128(W) x	148(L) mm (5.040" x 5.830")	
Sheet Weight Range		: 35 to 209 gsm	
Officer vveignt realige		per : 50 to 232 gsm	
	1st Buckle	30 to 450 mm (1.180" to 17.720")	
	2nd Buckle	30 to 450 mm (1.180" to 17.720")	
Buckle Fold Length	3rd Buckle	30 to 450 mm (1.180" to 17.720")	
	4th Buckle 5th Buckle	30 to 360 mm (1.180" to 14.170") 30 to 450 mm (1.180" to 17.720")	
	6th Buckle	30 to 360 mm (1.180" to 14.170")	
Farding Machanian		tor & 2 Cylinder Separator Head	
Feeding Mechanism	(Feed interval and suction time are adjustable.)		
Maximum Pile Height	Max. 740 mm (29.1") [within 250 kg (551.3 lb)]		
Belt Speed	30 to 240 m (32 to 261 yd.)/min.		
Production Speed	42,000 sheets/hr. [A4 (8.5" x 11") Parallel Fold]		
Standard Fold Roller	Combination of Soft Polyurethane Foam Rubber and Steel Roller		
Roller Gap Adjustment Slit Perforation	Automatic Sett	0	
Siit i Gilulatiuli		4"), Blank 4 mm (0.16") (Standard) 13"), Blank 0.8 mm (0.03") /	
		06"), Blank 0.8 mm (0.03") /	
Perforation		10"), Blank 0.8 mm (0.03") (All options)	
		n Distance : 20 mm (0.79") in one operation	
		from Sheet Edge : 12 mm (0.48")	
		: About 1 mm (0.04") (Depends on sheet type)	
Scoring		istance : 20 mm (0.79") in one operation	
		Wheels (Diameter 51.5 mm) (Two installed, One accessory)	
Number of Holders	Standard : 3 (2 for Scoring and 1 for Perforation)		
	Max. of 12 holders can be attached. Suction Head, Table Guide, Side Lay Guide,		
Automatic Setup		le (9 sections in total)	
	Roller Gap Adjustment (16 sections in total)		
Automatic Setup Accuracy	Setting Dimension : +/-1 mm		
	Consistent Accuracy : +/-0.1 mm		
Deflectors	Deflectors  1st to 6th Buckle : Buckle Stopper and Deflector  Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag (4 panel) Fold, Zigzag (5 panel) Fold, Zigzag (6 panel) Fold, Zigzag (7 panel) Fold, Letter Fold, Double Parallel Fold, Round Parallel Fold (4 panel),		
Fold Patterns			
		Double Parallel Fold	
Job Memory	200 Jobs	out of a care of	
	Flow	40 m³/hr.	
Vacuum Pump	Voltage / Frequer	cy 3-Phase ♥ 230 / Y400 V +/-10 % 50 / 60 Hz	
		on 1.8 / 2.2 kW (50 / 60 Hz)	
	3-Phase 200 V		
Voltage / Frequency	3-Phase 220 V, 50 / 60 Hz		
	3-Phase 400 V, 50 / 60 Hz 3-Phase 200 V, 50 / 60 Hz, 9.1 / 10.6 A		
Rated Current		7, 50 / 60 Hz, 9.1 / 10.0 A	
. tatos ouriont	3-Phase 400 V, 50 / 60 Hz, 4.9 / 5.5 A		
Dower Coti		7, 50 / 60 Hz, 2.9 / 3.5 kW	
Power Consumption (Including Pump)	3-Phase 220 V, 50 / 60 Hz, 2.9 / 3.6 kW		
	3-Phase 400 V, 50 / 60 Hz, 2.8 / 3.5 kW		
Heat Output	3,220 kJ (890 kcal)		
Motors		.2 kW x 1, 25 W x 1, 0.4 kW x 1, 2.2 kW x 1 (Pump)	
		n : Installation at right angle	
Machine Dimensions	3,130(W) x 2,280(D) x 1,600(H) mm (123.3" x 89.8" x 63.0")  1st+2nd Station : Installation at straight		
	4,630(W) x 1,050(D) x 1,600(H) mm (182.3" x 41.4" x 63.0")		
		n : Installation at right angle	
	1st+2nd Statio		
Installation Space		80(D) mm (162.6" x 129.2")	
Installation Space	4,130(W) x 3,2 1st+2nd Statio	80(D) mm (162.6" x 129.2") n : Installation at straight	
Installation Space	4,130(W) x 3,2 1st+2nd Statio 5,740(W) x 2,0	80(D) mm (162.6" x 129.2") n : Installation at straight 50(D) mm (226.0" x 80.8")	
Installation Space  Machine Weight	4,130(W) x 3,2 1st+2nd Statio 5,740(W) x 2,0 743 kg (1,638.	80(D) mm (162.6" x 129.2") n : Installation at straight 50(D) mm (226.0" x 80.8") 3 lb),	
	4,130(W) x 3,2 1st+2nd Statio 5,740(W) x 2,0 743 kg (1,638. Vacuum Pump	80(D) mm (162.6" x 129.2") n : Installation at straight 50(D) mm (226.0" x 80.8") 3 lb), : 61 kg (134.5 lb), Transformer : 70 kg (154.3 lb)	
	4,130(W) x 3,2 1st+2nd Statio 5,740(W) x 2,0 743 kg (1,638. Vacuum Pump Temperature :	80(D) mm (162.6" x 129.2") n : Installation at straight 50(D) mm (226.0" x 80.8") 3 lb),	

		3,740(VV) X 2,030(D) HIIII (220.0 X 00.0	
	Machine Weight	743 kg (1,638.3 lb),	
		Vacuum Pump : 61 kg (134.5 lb), Trans	
	Temperature & Humidity	Temperature : 0 °C to +40 °C, Humidity	
		(25 degrees Celsius and 52 +/-6 %RH	
*The machine design and specifications are subject to change without any notice.			

T-564F Major Specifications					
Machine Structure	4 Buckles				
Sheet Size	Max. 558(W) x 558(L) mm (21.970" x 21.970")				
Sileet Size	Min. 50(W) x 1	28(L) mm (1.970" x 5.040")			
Sheet Weight Range	Normal Paper : 35 to 209 gsm				
Sheet Weight Kange	Art/Coated Pa	per: 50 to 232 gsm			
	1st Buckle	30 to 360 mm (1.180" to 14.170")			
Buckle Fold Length	2nd Buckle	30 to 360 mm (1.180" to 14.170")			
Buckle I old Lerigili	3rd Buckle	30 to 360 mm (1.180" to 14.170")			
	4th Buckle	30 to 360 mm (1.180" to 14.170")			
Belt Speed	30 to 240 m (32 to 261 yd.)/min.				
Standard Fold Roller	Combination o	f Soft Polyurethane Foam Rubber and Steel Roller			
Roller Gap Adjustment	Automatic Setting				
Slit Perforation (Option)	Cut 6 mm (0.24"), Blank 4 mm (0.16")				
	Cut 3.2 mm (0	.13"), Blank 0.8 mm (0.03") /			
	Cut 1.4 mm (0	.06"), Blank 0.8 mm (0.03") /			
Perforation	Cut 2.5 mm (0.10"), Blank 0.8 mm (0.03") (All options)				
	Min. Perforation Distance : 20 mm (0.79") in one operation				
	Min. Distance from Sheet Edge: 12 mm (0.48")				
	Scoring Width: About 1 mm (0.04") (Depends on sheet type)				
Scoring (Option)	Min. Scoring Distance : 20 mm (0.79") in one operation				
Scoring (Option)	Three Scoring Wheels (Diameter 51 mm) (Two installed, One accessory)				
	Three Scoring Wheels (Diameter 52 mm) (Accessory)				
Number of Holders	Max. of 12 holders can be attached.				
Automatic Setup	Side Lay Guide, 1st to 4th Buckle (5 sections in total)				
7 tatomatio Cotap	Roller Gap Adjustment (12 sections in total)				
Automatic Setup Accuracy	Setting Dimension : +/-1 mm				
Tutomatio Cotap Tiodardoy	Consistent Accuracy: +/-0.1 mm				
Deflectors	1st to 4th Buckle : Buckle Stopper and Deflector				
Fold Patterns		Short Fold, Gate Fold, Accordion Fold,			
1 old I allottis	Zigzag (4 panel) Fold, Letter Fold, Double Parallel Fold				
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz				
	3-Phase 220 V, 50 / 60 Hz				
Rated Current	3-Phase 200 V, 50 / 60 Hz, 1.8 / 2.2 A				
rialed Garrent		<sup>7</sup> , 50 / 60 Hz, 1.5 / 1.6 A			
Power Consumption	3-Phase 200 V	/, 50 / 60 Hz, 540 / 700 W			
(Including Pump)	3-Phase 220 V, 50 / 60 Hz, 550 / 620 W				
Heat Output	1,540 kJ (370 kcal)				
Motors	0.75 kW x 1				
Machine Weight	467 kg (1,029.				
Temperature & Humidity		0 °C to +40 °C, Humidity : 20 % to 75 %RH elsius and 52 +/-6 %RH are recommended.)			

Options				
■ Scoring Navigator : AF-SN56	■ Gate Fold Buckle : GFB-56			
■ Blades	■ Punch Perforation Kit			
(Scoring/Slit Perforation/Slitter/Perforation Blade)	■ Gluing Unit : CGU-50/CGU-K56			
■ Strip Trim Device : AF-ST5N	■ Front Perforation Unit : FP-56 <sup>*1</sup>			
■ Edge Trim Device : AF-ET5N	■ Front Skip Perforation Unit : FSP-56			
■ Skewed Folding Detector	■ Press Stacker : PST-40			
(for Transport Conveyor of T-564F)	■ Mobile Knife Fold Unit : MKU-54/MKU-54T			
■ Bridge Conveyor Unit : BG-566	■ Round Pile Feeder Unit : RFU-54			
■ Standing Delivery Unit : ED-40	■ i2i System			
■ Image Checking System : CCD-AFC/AF	*1 Factory Option			



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