Buckle Folder AF-566T4F



AF-566T4F





think intelligent automation.

i2i System Connectable Product

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.

Buckle Folder AF-566F

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.





adjustment very simple.

i2i System

Option

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

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 Se	etup			
AF-566F (25	sections in total)		A STATE	
1st Buckle	5th Buckle	Side Lay Guide	A Company of the second	
2nd Buckle	6th Buckle	Roller Gap Adjustment		
3rd Buckle	Suction Head	(16 sections)		
4th Buckle	Table Guide			
<u>T-564F (17 se</u>	ections in total)			
1st Buckle	3rd Buckle	Side Lay Guide		
2nd Buckle	4th Buckle	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.



JDF workflow compatibility

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



Feed Rotor 3



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

Side Lay Guide </u>



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, 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.





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



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



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.



Glue Gun

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



Standing Delivery Unit : ED-40

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

*The BG-566 optional bridge conveyor unit is required to connect the ED-40.



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.



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.



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.



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.



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).



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



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

Straight 6+4-buckle

4,263 (167.9") 1,997 (78.7" Щ 1,048 (41.3") Conveyo T-564F AF-566F 1,350 (53.2")

Complex fold patterns can be performed using this configuration.

2 1

Machine Dimensions [Unit : mm (inch)]

Buckle Folder AF-566T4F

AE	-566F Major Specifications			
Machine Structure	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")			
0	Normal Paper : 35 to 209 gsm			
Sheet Weight Range	Art/Coated Paper : 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")			
Dualda Cald Lagath	3rd Buckle 30 to 450 mm (1.180" to 17.720")			
Buckle Fold Length	4th Buckle 30 to 360 mm (1.180" to 14.170")			
	5th Buckle 30 to 450 mm (1.180" to 17.720")			
	6th Buckle 30 to 360 mm (1.180" to 14.170")			
Feeding Mechanism	Air Suction Rotor & 2 Cylinder Separator Head			
reeding 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				
Roller Gap Adjustment	Automatic Setting			
Slit Perforation	Cut 6 mm (0.24"), Blank 4 mm (0.16") (Standard)			
	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	Min. Scoring Distance : 20 mm (0.79") in one operation			
J J J J J J J J J J J J J J J J J J J	Three Scoring Wheels (Diameter 51.5 mm) (Two installed, One accessory)			
	Standard : 3 (2 for Scoring and 1 for Perforation)			
Number of Holders	Max. of 12 holders can be attached.			
	Suction Head, Table Guide, Side Lay Guide,			
Automatic Setup	1st to 6th Buckle (9 sections in total)			
	Roller Gap Adjustment (16 sections in total)			
	Setting Dimension : +/-1 mm			
Automatic Setup Accuracy	Consistent Accuracy : +/-0.1 mm			
Deflectors	1st to 6th Buckle : Buckle Stopper and Deflector			
	Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag (4 panel)			
5 J 5 //	Fold, Zigzag (5 panel) Fold, Zigzag (6 panel) Fold, Zigzag (7 panel)			
Fold Patterns	Fold, Letter Fold, Double Parallel Fold, Round Parallel Fold (4 panel),			
	Single Fold + Double Parallel Fold			
Job Memory	200 Jobs			
coo memory	Flow 40 m ³ /hr.			
Vacuum Pump	Voltage / Frequency 3-Phase \Z30 / Y400 V +/-10 % 50 / 60 Hz			
vaoaann ump	Power Consumption 1.8 / 2.2 kW (50 / 60 Hz)			
	3-Phase 200 V, 50 / 60 Hz			
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz			
voltage / r requerity	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				
Raleu Gurreni	3-Phase 220 V, 50 / 60 Hz, 8.8 / 10.1 A 3-Phase 400 V, 50 / 60 Hz, 4.9 / 5.5 A			
	3-Phase 200 V, 50 / 60 Hz, 2.9 / 3.5 kW			
Power Consumption				
(Including Pump)	3-Phase 220 V, 50 / 60 Hz, 2.9 / 3.6 kW			
Hoat Output	3-Phase 400 V, 50 / 60 Hz, 2.8 / 3.5 kW			
Heat Output Motors	3,220 kJ (890 kcal) 0.75 kW x 1, 0.2 kW x 1, 25 W x 1, 0.4 kW x 1, 2.2 kW x 1 (Pump)			
WOUTS	1st+2nd Station : Installation at right angle			
	8 8			
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 $4 620(M) \times 4 050(D) \times 4 000(H) mm (482.2" \times 44.4" \times 62.0")$			
	4,630(W) x 1,050(D) x 1,600(H) mm (182.3" x 41.4" x 63.0")			
	1st+2nd Station : Installation at right angle			
Installation Space	4,130(W) x 3,280(D) mm (162.6" x 129.2")			
Installation Space	4,130(W) x 3,280(D) mm (162.6" x 129.2") 1st+2nd Station : Installation at straight			
Installation Space	4,130(W) x 3,280(D) mm (162.6" x 129.2") 1st+2nd Station : Installation at straight 5,740(W) x 2,050(D) mm (226.0" x 80.8")			
Installation Space	4,130(W) x 3,280(D) mm (162.6" x 129.2") 1st+2nd Station : Installation at straight 5,740(W) x 2,050(D) mm (226.0" x 80.8") 743 kg (1,638.3 lb),			
	4,130(W) x 3,280(D) mm (162.6" x 129.2") 1st+2nd Station : Installation at straight 5,740(W) x 2,050(D) mm (226.0" x 80.8") 743 kg (1,638.3 lb), Vacuum Pump : 61 kg (134.5 lb), Transformer : 70 kg (154.3 lb)			
	4,130(W) x 3,280(D) mm (162.6" x 129.2") 1st+2nd Station : Installation at straight 5,740(W) x 2,050(D) mm (226.0" x 80.8") 743 kg (1,638.3 lb),			

T-	-564F Major Specifications		
Machine Structure	4 Buckles		
Sheet Size	Max. 558(W) x 558(L) mm (21.970" x 21.970")		
Sheet Size	Min. 50(W) x 128(L) mm (1.970" x 5.040")		
Chart Wainht Danna	Normal Paper : 35 to 209 gsm		
Sheet Weight Range	Art/Coated Paper : 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 Fold Length	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 of 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		
Sconing (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)		
Automatic Octup	Roller Gap Adjustment (12 sections in total)		
Automatic Setup Accuracy	Setting Dimension : +/-1 mm		
Automatic Octop Accuracy	Consistent Accuracy : +/-0.1 mm		
Deflectors	1st to 4th Buckle : Buckle Stopper and Deflector		
Fold Patterns	Parallel Fold, Short Fold, Gate Fold, Accordion Fold,		
r old r ditolfilo	Zigzag (4 panel) Fold, Letter Fold, Double Parallel Fold		
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz		
voltage / rrequeries	3-Phase 220 V, 50 / 60 Hz		
Rated Current	3-Phase 200 V, 50 / 60 Hz, 1.8 / 2.2 A		
	3-Phase 220 V, 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 (1,029.7 lb)		
Temperature & Humidity	Temperature : 0 °C to +40 °C, Humidity : 20 % to 75 %RH		
porataro a rianilaty	(25 degrees Celsius and 52 +/-6 %RH are recommended.)		

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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 ^{*1}			
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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*The machine design and specifications are subject to change without any notice.



Standard Finishing Systems, 10 Connector Road, Andover, MA 01810 (877) 404-4460 www.standardfinishing.com

HORIZON INTERNATIONAL, INC.

510 Kuze Ooyabu-cho, Minami-ku, Kyoto, 601-8206, Japan Phone: +81-(0)75-934-6700, Fax: +81-(0)75-934-6708, www.horizon.co.jp