



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.



i2i System Connectable Product

Features

Automated Setup



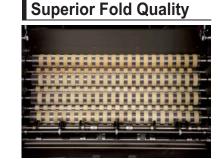


Fully automated setup including the suction head, table guide, buckle stopper, cross-knife fold section and side lay guide for the sheet size and fold pattern are selected through the touchscreen. Even the roller gap setting is automated for the actual sheet thickness inserted to the caliper.

Color LCD Touchscreen



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



Superior and consistent fold quality is ensured with steel and soft-formed polyurethane combination rollers.

6 Buckle Plates



The AFC-566FG is equipped with 6 buckles, 1 cross knife and 2 buckles under the cross knife, allowing a wide variety of fold patterns in minimal floor space.

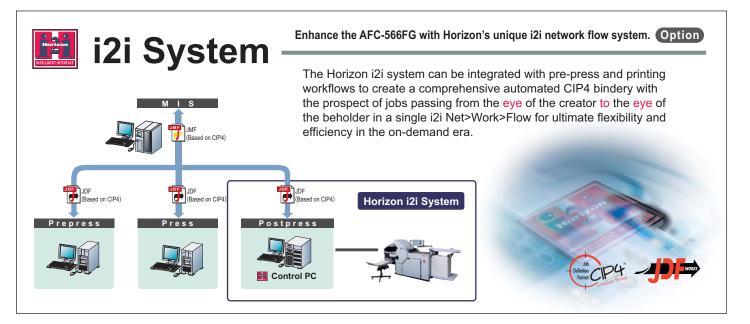
Wireless Remote Controller



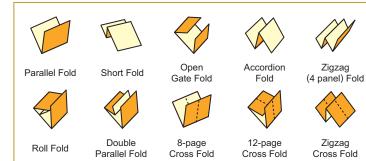
Wireless remote controller enables common operations and adjustments to be performed from all area of the system for greater flexibility, performance and ease-of-use.

AFC-566FG+PST-40+MKU-54+RFU-54

Shown with optional press stacker PST-40, mobile knife fold unit MKU-54 and round pile feeder unit RFU-54.



17 unique fold patterns can be set up automatically.





High-speed Feeder

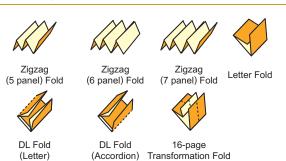


Horizon's advanced rotary suction feed system with side blowing assist air for fast, consistent feeding of a wide range of paper stocks.



The supersonic and photoelectronic double feed detect sensors come standard for superior detection.





*Nonstandard fold patterns can also be set up automatically by inputting the setup size for each fold.

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)

- Suction Head
- ■3rd Buckle
- ■4th Buckle Table Guide
- Side Lay Guide
- 1st Buckle
- ■2nd Buckle
- ■5th Buckle
- ■6th Buckle
- Knife Stopper

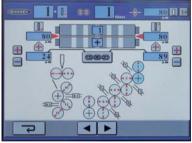
■ Knife Guides (Front/Rear)

- 3rd Roller Gap (Front/Rear) 8th Roller Gap (Left/Right)
- ■4th Roller Gap (Front/Rear) ■9th Roller Gap (Left/Right)
- 5th Roller Gap (Front/Rear) 10th Roller Gap (Left/Right)
- 1st Roller Gap (Front/Rear) 6th Roller Gap (Front/Rear) 11th Roller Gap (Left/Right)
- 2nd Roller Gap (Front/Rear) 7th Roller Gap (Front/Rear) 12th Roller Gap (Left/Right)

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.

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

(aboot/bour : Movimum)

Production Speed by Fold Pattern

8-page Cross Fo	DL Fold	Letter Fold	Parallel Fold	Sheet Size
-	-	28,500	42,000	A4
-	-	30,000	45,000	8.5" x 11"
26,000	23,000	20,500	31,000	A3
25,500	22,500	20,000	30,000	11" x 17"
19,000	-	15,000	22,500	A2
17,500	-	14,000	21,000	18" x 25"

K1 Buckle Below Knife ■ K2 Buckle Below Knife

Control Panel 1



- 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.





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



Sub Operation Panel 4

• Start, Stop, Inching, Single Knife-actuation, and Test Feeding are performed at this panel.

Roller Gap Caliper 3



• All the roller gap sets up instantly by inserting a single sheet at the caliper. • Precise roller gap adjustment with 0.005 mm accuracy.

Feed Table Knob **5**



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

Knife Fold Section Auto



- 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 perforation, scoring, 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 screen for easy perforation/scoring positioning.



- The uniquely designed combination of soft polyurethane foam rubber and steel 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.





• An innovative detection system is employed for accurate and stable suction head positioning to achieve consistent feeding.

Feed Rotor 10



• Horizon's advanced rotary suction feed system for fast, consistent feeding of a wide range of paper stock.

Side Lay Guide Auto (1)



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

A Wide Range of Optional Units Option

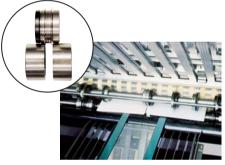
Gluing Unit : CGU-50

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.



*The front perforation unit is a factory optic

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.)

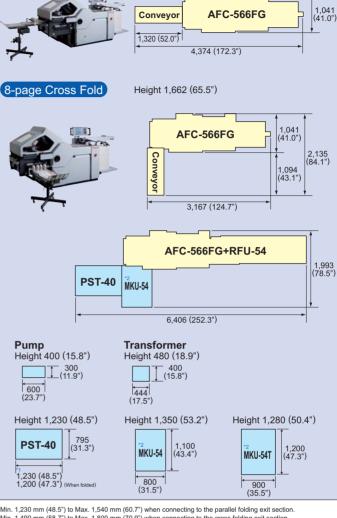


- Round Pile Feeder Unit : RFU-54
- The RFU-54 can be attached or detached to the folder without removing the standard flat pile feed table, making it quick and easy to interrupt long runs for a short-run job.
- An error feed tray is equipped for continuous feeding operation.

Machine Dimensions Unit : mm (inch)

Height 1,662 (65.5")

	66FG Ma	ijor Spec	ifications		
Machine Structure			Buckles Below Knife)		
Max. Sheet Size	558(W) x 850(L) mm (21.965" x 33.460")				
Max. Sheet Size			3.310") Factory Option]		
Min. Sheet Size	128(W) x 148(L) mm (5.040" x 5.830")				
	[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 1st Buckle 30 to 450 mm (1.2" to 17.7")				
	2nd Buckle	30 to 450 mm (
	3rd Buckle	30 to 450 mm (
B 11 E 111 //	4th Buckle	30 to 360 mm (
Buckle Fold Length	5th Buckle	30 to 450 mm (
	6th Buckle	30 to 360 mm (1.2" to 14.1")		
	K1 Buckle	30 to 150 mm (1.2" to 5.9")		
	K2 Buckle	30 to 150 mm (
	Max. 558(W) x 410(L) mm (21.9" x 16.1")				
Knife Fold Size	[Knife Length : 410 mm (16.1")]				
	Min. 160(W) x 3				
	[190(W) mm (7.5				
Feeding Mechanism	Air Suction Roto (Feed interval a	•			
Maximum Pile Height	Max.740 mm (29				
Belt Speed	· · ·	, .	(nife Fold : 200 m (218 yd.)/min.]		
· · ·	42,000 sheets/h				
Production Speed			m (19.7" x 27.6")-8-page Cross Fold		
Standard Fold Roller	Combination of Soft Polyurethane Foam Rubber and Steel Roller				
			attached to the roller.		
Roller Gap Adjustment	Automatic Settir				
Slit Perforation	Cut 6 mm (0.24'				
	Cut 2.5 mm (0.1"), Blank 0.8 mm (0.03")				
D. C. Ili	[Option : Cut 3.2 mm (0.13"), Blank 0.8 mm (0.03") /				
Perforation	Cut 1.4 mm (0.06"), Blank 0.8 mm (0.03")]				
	Min. Perforation Distance : 40 mm (1.58") in one operation				
	Min. Distance from Sheet Edge : 12 mm (0.48") Scoring Width : About 1 mm (0.04") (Depends on sheet type)				
Scoring	Lower Roller with Soft Polyurethane Foam Rubber				
N	Standard : 1 Slit Perforation Blade, 2 Perforation Blades				
Number of Holders	Max.12 blades can be attached.				
	Suction Head, Table Guide, Side Lay Guide, 1st to 6th Buckle,				
Automatic Setup	Knife Stopper, Knife Guide (Front/Rear), K1/K2 Buckle Below				
/ atomatio ootup	Knife, Roller Gap (1st to 7th Rollers, Perforation Rollers, Knife				
	Rollers and Rollers Below Knife)				
Automatic Setup Accuracy			sistent Accuracy : +/-0.1 mm		
Deflectors	1st to 6th Buckle Buckle Stopper and Deflector				
	K1/K2 Buckle (Below Knife) Buckle Stopper and Deflector Parallel Fold, Short Fold, Gate Fold, Accordion Fold, Zigzag (4				
			ld, Letter Fold, Double Parallel		
Fold Patterns	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				
	Flow	40 m ³ /hr.			
Vacuum Pump	Voltage / Frequency		/ Y400 V +/-10 % 50 / 60 Hz		
Voltago / Erre	Power Consumption				
Voltage / Frequency			V, 60 Hz 400 V, 50 Hz		
Rated Current	3-Phase 200 V 3-Phase 220 V	50 / 60 Hz 60 Hz	10.4 / 12.6 A		
		50 Hz	11.5 A 5.6 A		
Nated Guilent	3-Phase /00 V				
	3-Phase 400 V 3-Phase 200 V	50 / 60 Hz	3.2 / 4.0 kW		
Power Consumption	3-Phase 400 V 3-Phase 200 V 3-Phase 220 V	50 / 60 Hz 60 Hz	3.2 / 4.0 kW 4.0 kW		
	3-Phase 200 V	50 / 60 Hz 60 Hz 50 Hz	3.2 / 4.0 kW 4.0 kW 3.2 kW		
Power Consumption	3-Phase 200 V 3-Phase 220 V	60 Hz 50 Hz	4.0 kW		
Power Consumption (Including Pump)	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010	60 Hz 50 Hz kcal)	4.0 kW		
Power Consumption (Including Pump) Heat Output Motors	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0 2,900(W) x 1,005(D	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5")		
Power Consumption (Including Pump) Heat Output	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0 2,900(W) x 1,005(D 1,320(W) x 600(D) :	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5") x 1,130(H) mm (52.0" x 23.7" x 44.5")		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0. 2,900(W) x 1,005(D 1,320(W) x 600(D) : 5,450(W) x 3,30	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 66.5") 1,130(H) mm (52.0" x 23.7" x 44.5") 67(D) mm (214.6" x 132.6")		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions Installation Space	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold Cross Fold	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0. 2,900(W) x 1,005(D 1,320(W) x 600(D) : 5,450(W) x 3,30	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5") x 1,130(H) mm (52.0" x 23.7" x 44.5")		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold Cross Fold LAeq : 84.0 dB	60 Hz 50 Hz kcal) 2,900(W) × 1,0.05(D 1,320(W) × 600(D) 5,450(W) × 3,3 4,132(W) × 3,8	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5") (1,130(H) mm (52.0" x 23.7" x 44.5") 57(D) mm (214.6" x 132.6") 57(D) mm (162.7" x 151.9")		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions Installation Space	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold Cross Fold LAeq : 84.0 dB Main Body	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0. 2,900(W) x 1,005(D 1,320(W) x 600(D) 5,450(W) x 3,3 4,132(W) x 3,8 1,091 kg (2,405	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump) x 1.662(H) mm (114.2" x 39.6" x 65.5") x 1.130(H) mm (52.0" x 23.7" x 44.5") 57(D) mm (214.6" x 132.6") 57(D) mm (162.7" x 151.9") 5.3 lbs.)		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions Installation Space	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold Cross Fold LAeq : 84.0 dB Main Body Conveyor	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0. 2,900(W) x 1,005(D) 1,320(W) x 600(D) 5,450(W) x 3,3 4,132(W) x 3,8 1,091 kg (2,405 50 kg (110.3 lb)	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5") x 1,130(H) mm (52.0" x 23.7" x 44.5") 57(D) mm (214.6" x 132.6") 57(D) mm (162.7" x 151.9") 5.3 lbs.) 5.)		
Power Consumption (Including Pump) Heat Output Motors Machine Dimensions Installation Space Noise Level	3-Phase 200 V 3-Phase 220 V 3-Phase 400 V 4,210 kJ (1,010 0.75 kW x 1, 0.2 kV Main Body Conveyor Parallel Fold Cross Fold LAeq : 84.0 dB Main Body	60 Hz 50 Hz kcal) V x 2, 25 W x 1, 0. 2,900(W) x 1,005(D 1,320(W) x 600(D) 5,450(W) x 3,3 4,132(W) x 3,8 1,091 kg (2,405	4.0 kW 3.2 kW 4 kW x 1 (Servo), 2.2 kW x 1 (Pump)) x 1,662(H) mm (114.2" x 39.6" x 65.5") x 1,130(H) mm (52.0" x 23.7" x 44.5") 57(D) mm (214.6" x 132.6") 57(D) mm (162.7" x 151.9") 5.3 lbs.) 5.) 5.)		



*1 Min. 1,230 mm (48.5") to Max. 1,540 mm (60.7") when connecting to the parallel folding exit section. Min. 1,490 mm (58.7") to Max. 1,800 mm (70.9") when connecting to the cross folding exit section.

*2 Machine dimensions not including the delivery conveyor

Options

Gluing Unit : CGU-50

Parallel Fold

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

τ̈́ν ISO 9001:2000 ISO 14001:2004 No. 09 104 8177 Manufactured by Taivo Seiki Co., Ltd

*The machine design and specifications are subject to change without any notice.

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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