Cross Folder AFC-566FKT



AFC-566FKT

Automation is Power

Ultra-fast Changeover Paper Folder





World's First in a folding machine!

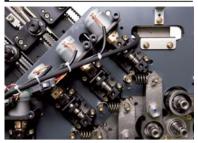
Innovative wireless remote with jog dial comes standard.



i2i System Connectable Product

Features

Automated Setup





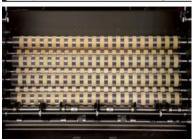
Fully automated setup including the suction head, table guide, buckle stopper, cross-knife fold section and side lay guide for the sheet size and fold pattern are selected through the touchscreen. Even the roller gap setting is automated for the actual sheet thickness inserted to the caliper.

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 Fold Quality

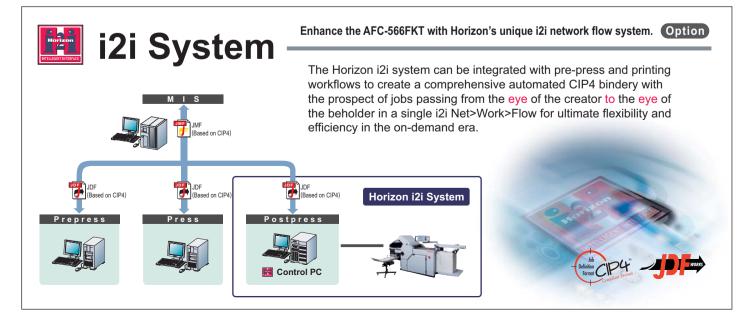


Superior and consistent fold quality is ensured with steel and soft-formed polyurethane combination rollers.



AFC-566FKT+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.



Cross Folder AFC-566FKT

6 Buckle Plates



The AFC-566FKT 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.

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.



17 unique fold patterns can be set up automatically.



Short Fold

Open Gate Fold













Letter Fold



















Roll Fold

Double Parallel Fold

8-page Cross Fold

12-page Cross Fold

Zigzag DL Fold Cross Fold (Letter)

DL Fold 16-page (Accordion) Transformation Fold

*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-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 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 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) Auto

Suction Head

- Table Guide
- ■4th Buckle
- Side Lay Guide
- ■5th Buckle
- ■1st Buckle

■2nd Buckle

■6th Buckle

■3rd Buckle

- Knife Stopper

■ Knife Guides (Front/Rear)

■K1 Buckle Below Knife

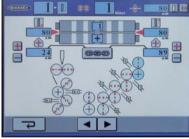
■ K2 Buckle Below Knife

- 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.

Production Speed by Fold Pattern

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

Production speeds may differ depending on folder setting or sheet condition.

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.

Buckle Auto 2



- 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 😏



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

Knife Fold Section Auto 6



- 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.

Folding Rollers Auto 8



- 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.

Suction Head Auto 9



• 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

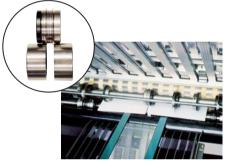
Gluing Unit : CGU-50

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 option

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.)



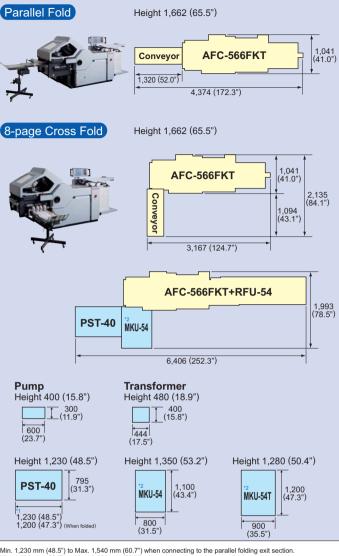
Round Pile Feeder Unit : RFU-54

- 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.

Cross Folder AFC-566FKT

Machine Dimensions Unit : mm (inch)

	06FK <u>IM</u>	ajor <u>Spec</u>	ifications				
Machine Structure			uckles Below Knife)				
Max. Sheet Size	558(W) x 850(L) mm (21.965" x 33.460")						
Wax. Sheet Size	[AFC-566FKTL : 1,100(L) mm (43.310") 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 (*					
	2nd Buckle	30 to 450 mm (*					
	3rd Buckle	30 to 450 mm (*					
Buckle Fold Length	4th Buckle 5th Buckle	30 to 360 mm (* 30 to 450 mm (*					
	6th Buckle	30 to 360 mm (
	K1 Buckle						
	K2 Buckle	30 to 150 mm (
		410(L) mm (21.9'					
	[Knife Length : 4						
Knife Fold Size	Min. 160(W) x 30(L) mm (6.3" x 1.2")						
	[190(W) mm (7.5") with automatic setup]						
Faadiaa Maabaaisaa		or & 2 Cylinder Se					
Feeding Mechanism	(Feed interval and suction time are adjustable.)						
Maximum Pile Height		9.1") [within 250					
Belt Speed			nife Fold : 200 m (218 yd.)/min				
Production Speed	42,000 sheets/hr. [A4 (8.5" x 11")-Parallel Fold]						
r touction opeeu	,		n (19.7" x 27.6")-8-page Cross Fold				
Standard Fold Roller			Foam Rubber and Steel Rolle				
	Optional side cut blades can be attached to the roller.						
Roller Gap Adjustment	Automatic Settir						
Slit Perforation		"), Blank 4 mm (0					
	Cut 2.5 mm (0.1"), Blank 0.8 mm (0.03")						
	[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	Scoring Width : About 1 mm (0.04") (Depends on sheet type)						
	Lower Roller with Soft Polyurethane Foam Rubber						
Number of Holders	Standard : 1 Slit Perforation Blade, 2 Perforation Blades						
	Max.12 blades can be attached.						
	Suction Head, Table Guide, Side Lay Guide, 1st to 6th Buckle, Knife Stepper, Knife Guide (Front/Boar), K1/K2 Buckle Below						
Automatic Setup	Knife Stopper, Knife Guide (Front/Rear), K1/K2 Buckle Below						
	Knife, Roller Gap (1st to 7th Rollers, Perforation Rollers, Knife Rollers and Rollers Below Knife)						
Automatic Setup Accuracy	Setting Accuracy : +/-1 mm, Consistent Accuracy : +/-0.1 mm						
	1st to 6th Bi		e Stopper and Deflector				
Deflectors	K1/K2 Buckle (Below Knife) Buckle Stopper and Deflector						
			old, Accordion Fold, Zigzag (4				
	,	,	d, Letter Fold, Double Paralle				
Fold Patterns	Fold, 8-page Cross Fold, 12-page Cross Fold, Zigzag Cross						
	Fold, DL Fold (Letter / Accordion), 16-page Transformation Fold						
			panel) Fold, Roll Fold				
Job Memory	200 Jobs						
	Flow	40 m ³ /hr.					
Vacuum Pump	Voltage / Frequency	3-Phase \(\no 230\)	Y400 V +/-10 % 50 / 60 Hz				
	Power Consumption						
Voltage / Frequency		1	/, 60 Hz 400 V, 50 Hz				
	3-Phase 200 V	50 / 60 Hz	10.4 / 12.6 A				
Rated Current	3-Phase 220 V	60 Hz	11.5 A				
	3-Phase 400 V	50 Hz	5.6 A				
Power Consumption	3-Phase 200 V	50 / 60 Hz	3.2 / 4.0 kW				
(Including Pump)	3-Phase 220 V	60 Hz	4.0 kW				
	3-Phase 400 V	50 Hz	3.2 kW				
Heat Output	4,210 kJ (1,010		W/ x 1 (Comm) 0.0 LW/ 4 /D				
Motors			kW x 1 (Servo), 2.2 kW x 1 (Pump				
Machine Dimensions	Main Body	2,900(W) x 1,005(D) x 1,662(H) mm (114.2" x 39.6" x 65.5") 1 320(W) x 600(D) x 1 130(H) mm (52.0" x 23.7" x 44.5")					
	Conveyor 1,320(W) x 600(D) x 1,130(H) mm (52.0" x 23.7" x 44.5")						
Installation Space	Parallel Fold 5,450(W) x 3,367(D) mm (214.6" x 132.6")						
Noise Level	Cross Fold 4,132(W) x 3,857(D) mm (162.7" x 151.9")						
NOISE LEVEI	LAeq : 84.0 dB Main Body	1,091 kg (2,405	3 lbs)				
	Conveyor						
Machine Weight	Pump	50 kg (110.3 lbs.) 50 kg (110.3 lbs.)					
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indonino troigin	·	70 kg (154 4 lbs	;)				
Temperature & Humidity	Transformer	70 kg (154.4 lbs	s.) midity : 20 % to 75 %RH				



*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

- Blades (Slit/Perforation)
- Press Stacker : PST-40 Front Perforation Unit : FP-56 (Factory Option)
- Strip & Edge-Trim Device : CGU-T56F
- Edge Trim Device : KT-ET5

Gluing Unit : CGU-50

Gate Fold Buckle : GFB-56

Strip Trim Device : AF-ST5

- Mobile Knife Fold Unit : MKU-54/54T
- Round Pile Feeder Unit : RFU-54
- i2i System

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