

**Horizon**

# Roll to Fold Solution



Easy operation and advanced technology increase the possibility of in-line finishing with surprisingly simple changeovers and application flexibility.



AF-566F Digital (Right angle 6+4 buckles) + Hunkeler sheet processing system

**Benefits**

- Ease of Use:** Easy operation and state of the art automation allows set up and operation without specialized skills. Single person operation lowers labor and operating costs.
- Quality Folding:** Advanced technology and rigid machine construction achieves consistent, high-quality folding.
- Flexibility:** System can be used both in-line and off-line with simple changeover procedure.
- High Security:** In-line configuration eliminates manual paper handling tasks and achieves high job integrity.
- JDF Workflow:** System can be enhanced with JDF workflow from upstream to the postpress using Horizon network flow system.

**Suitable Markets**

Applications	Industry Segments
- Direct mailers	- Financial service
- Transpromo	- Health care
- Financial statements	- Marketing and advertisement
- One to One personalized applications	- Commercial printers
- Leaflets	- Government



AF-566F Digital (Single unit 6 buckle) + Hunkeler sheet processing system

**Features**

**Easy Operation:** The 10.4 inch color touch screen is icon based for user friendly and intuitive operation. More than 17 fold patterns can be set up through the touch screen.



**High Productivity:** Maximize production with speed up to 36,000 folds/min (A4), 37,500 folds/min (8.5" x 11").

**Production Speed by Fold Pattern**

(sheets/hour : Maximum)

Sheet Size	Parallel Fold	Letter Fold	DL Fold	8-page Cross Fold
A4	36,000	36,000	-	-
8.5" x 11"	37,500	37,500	-	-
A3	25,000	25,000	22,500	22,500
11" x 17"	24,000	24,000	21,500	21,500
A2	17,500	17,500	-	16,000
18" x 25"	16,500	16,500	-	15,000

Production speeds may differ depending on folder settings or sheet conditions.

**Quality Fold:** Superior and consistent fold quality is ensured with accurate and durable machine construction.

**Automatic Setup:** Fully automated set up for quick and accurate change-over. Even roller gap setting are fully automated.

**Flexibility:** System can be used both in-line and off-line with simple changeover. Just slide away the DIF-56 conveyor and the system can be used with the normal pile feeder.



**Configurations**

Modular concept allows various fold patterns from simple to complex.

**Single Unit 6-buckle**  
This configuration allows for simple folding, such as direct mailers or leaflets.



**Right Angle 6+4-buckles**  
This configuration allows for cross folding, such as double-letter fold and 8-page signature.



**Straight 6+4-buckles**  
This configuration allows for complex Zigzag folds up to 22-panels.

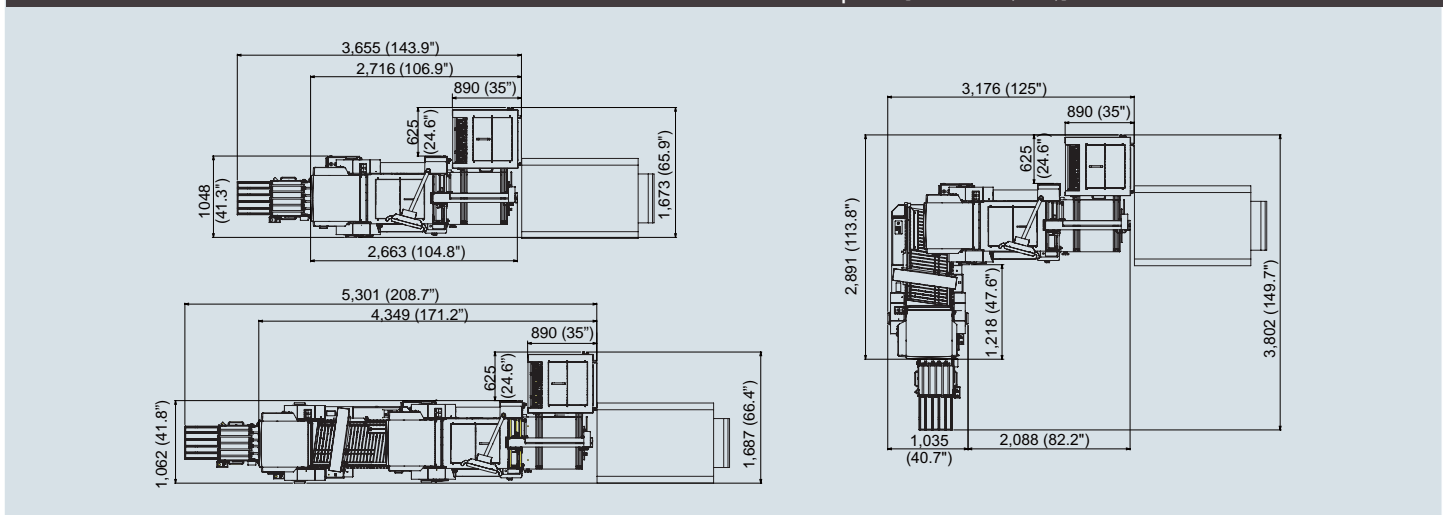


AF-566F Major Specifications	
Machine Structure	6 Buckles
Sheet Size	Max. 520.7(W) x 865(L) mm (20.5" x 6.5") Min. 210(W) x 148(L) mm (8.268" x 5.830")
Sheet Weight Range	Normal Paper : 35 to 209 gsm, Art/Coated Paper : 50 to 232 gsm
Buckle Fold Length	1st Buckle 30 to 450 mm (1.180" to 17.720")
	2nd Buckle 30 to 450 mm (1.180" to 17.720")
	3rd Buckle 30 to 450 mm (1.180" to 17.720")
	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")
Belt Speed	Max. 210 m (688 ft)/min.
Production Speed	36,000 sheets/hr. (A4 Parallel Fold)
Slit Perforation	3 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") / Cut 2.5 mm (0.1"), 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")
Perforation	Scoring Width: About 1 mm (0.04") (Depends on sheet type) Min. Scoring Distance: 20 mm (0.79") in one operation Three Scoring Wheels (Diameter 51.5 mm) (Two installed, One accessory)
Scoring	Standard: 3 (2 for Scoring and 1 for Perforation) Max. 12 of holders can be attached.
Number of Holders	Suction Head, Table Guide, Side Lay Guide, 1st to 6th Buckle (9 sections in total) Roller Gap Adjustment (16 sections in total)
Automatic Setup	Setting Dimension : +/-1 mm / Consistent Accuracy: +/-0.1 mm
Automatic Setup Accuracy	200 Jobs
Job Memory	Flow 40 m <sup>3</sup> /hr. Voltage / Frequency 3-Phase▽ 230 / Y400 V +/-10 % 50 / 60 Hz Power Consumption 1.8 / 2.2 kW (50 / 60 Hz)
Vacuum Pump	3-Phase 200 V, 50 / 60 Hz 3-Phase 220 V, 50 / 60 Hz 3-Phase 400 V, 50 / 60 Hz
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz, 9.1 / 10.6 A 3-Phase 220 V, 50 / 60 Hz, 8.8 / 10.1 A 3-Phase 400 V, 50 / 60 Hz, 4.9 / 5.5 A
Rated Current	3-Phase 200 V, 50 / 60 Hz, 2.9 / 3.5 kW 3-Phase 220 V, 50 / 60 Hz, 2.9 / 3.6 kW 3-Phase 400 V, 50 / 60 Hz, 2.8 / 3.5 kW
Power Consumption (Including Pump)	3,220 kJ (890 kcal)
Heat Output	0.75 kW x 1, 0.2 kW x 2, 25 W x 1, 0.4 kW x 1, 2.2 kW x 1 (Pump)
Motors	743 kg (1,638.1 lbs.), Vacuum Pump: 61 kg (134.5 lbs.), Transformer: 70 kg (154.4 lbs.)
Machine Weight	Temperature: 0 ° C to +40 ° C, Humidity: 20 % to 75 %RH (25 degrees Celsius and 52 +/-6 %RH are recommended.)
Temperature & Humidity	

T-564F Major Specifications	
Machine Structure	4 Buckles
Sheet Size	Max. 558(W) x 558(L) mm (21.970" x 21.970") Min. 50(W) x 210(L) mm (1.970" x 8.268")
Sheet Weight Range	Normal Paper: 35 to 209 gsm, Art/Coated Paper : 50 to 232 gsm
Buckle Fold Length	1st Buckle 30 to 360 mm (1.180" to 14.170")
	2nd Buckle 30 to 360 mm (1.180" to 14.170")
	3rd Buckle 30 to 360 mm (1.180" to 14.170")
	4th Buckle 30 to 360 mm (1.180" to 14.170")
Belt Speed	Max. 210 m (688 ft)/min.
Slit Perforation (Option)	3 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") / Cut 2.5 mm (0.1"), 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")
Perforation	Scoring Width: About 1 mm (0.04") (Depends on sheet type) Min. Scoring Distance: 20 mm (0.79") in one operation Three Scoring Wheels (Diameter 51 mm) (Two installed, One accessory)
Scoring (Option)	Max. 12 of holders can be attached.
Number of Holders	Side Lay Guide, 1st to 4th Buckle (5 sections in total) Roller Gap Adjustment (12 sections in total)
Automatic Setup	Setting Dimension: +/-1 mm Consistent Accuracy: +/-0.1 mm
Automatic Setup Accuracy	3-Phase 200 V, 50 / 60 Hz 3-Phase 220 V, 50 / 60 Hz
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz, 1.8 / 2.2 A 3-Phase 220 V, 50 / 60 Hz, 1.5 / 1.6 A
Rated Current	3-Phase 200 V, 50 / 60 Hz, 540 / 700 W 3-Phase 220 V, 50 / 60 Hz, 550 / 620 W
Power Consumption (Including Pump)	1,540 kJ (370 kcal)
Heat Output	0.75 kW x 1
Motors	467 kg (1,029.6 lbs.)
Machine Weight	Temperature: 0 ° C to +40 ° C, Humidity: 20 % to 75 %RH (25 degrees Celsius and 52 +/-6 %RH are recommended.)
Temperature & Humidity	

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

Machine Dimensions and Installation Space [Unit : mm (inch)]



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