

Horizon

Buckle Folder AF-566T4F

AF-566T4F



think **intelligent** automation.



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.



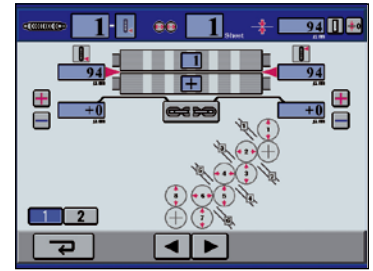
Features

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.

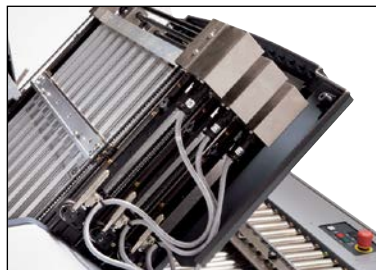
Automated Setup

AF-566F (25 sections in total)

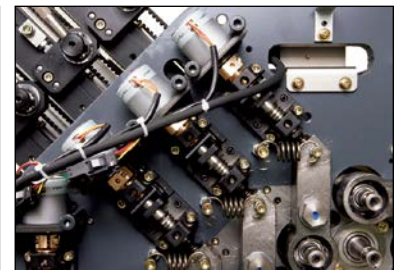
- 1st through 6th Buckle
- Suction Head
- Table Guide
- Side Lay Guide
- Roller Gap Adjustment (16 sections)

T-564F (17 sections in total)

- 1st through 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 (18 panel) folding can be performed.

Stand-alone
6-buckle



AF-566F+Conveyor

Straight
6+4-buckle



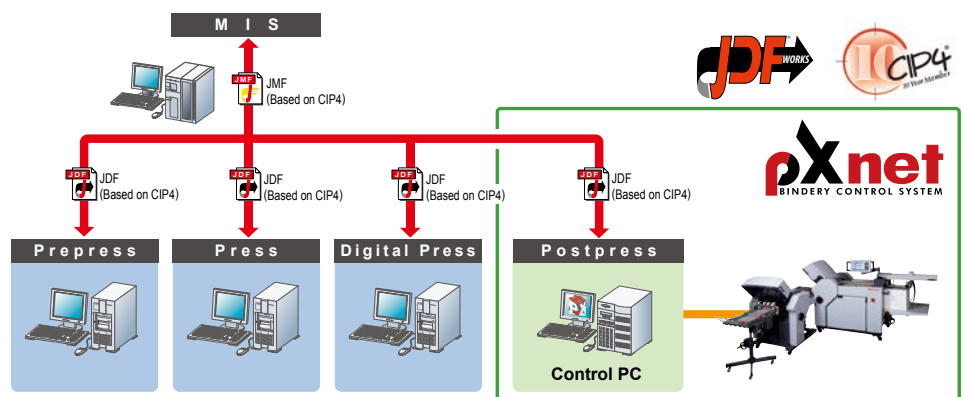
AF-566F+T-564F Straight Configuration+Conveyor

JDF workflow compatibility

pXnet System Option



The Horizon pXnet system leverages the power of JDF across the bindery, allowing jobs to flow seamlessly through the entire print production process from MIS, Prepress, Press and Postpress.



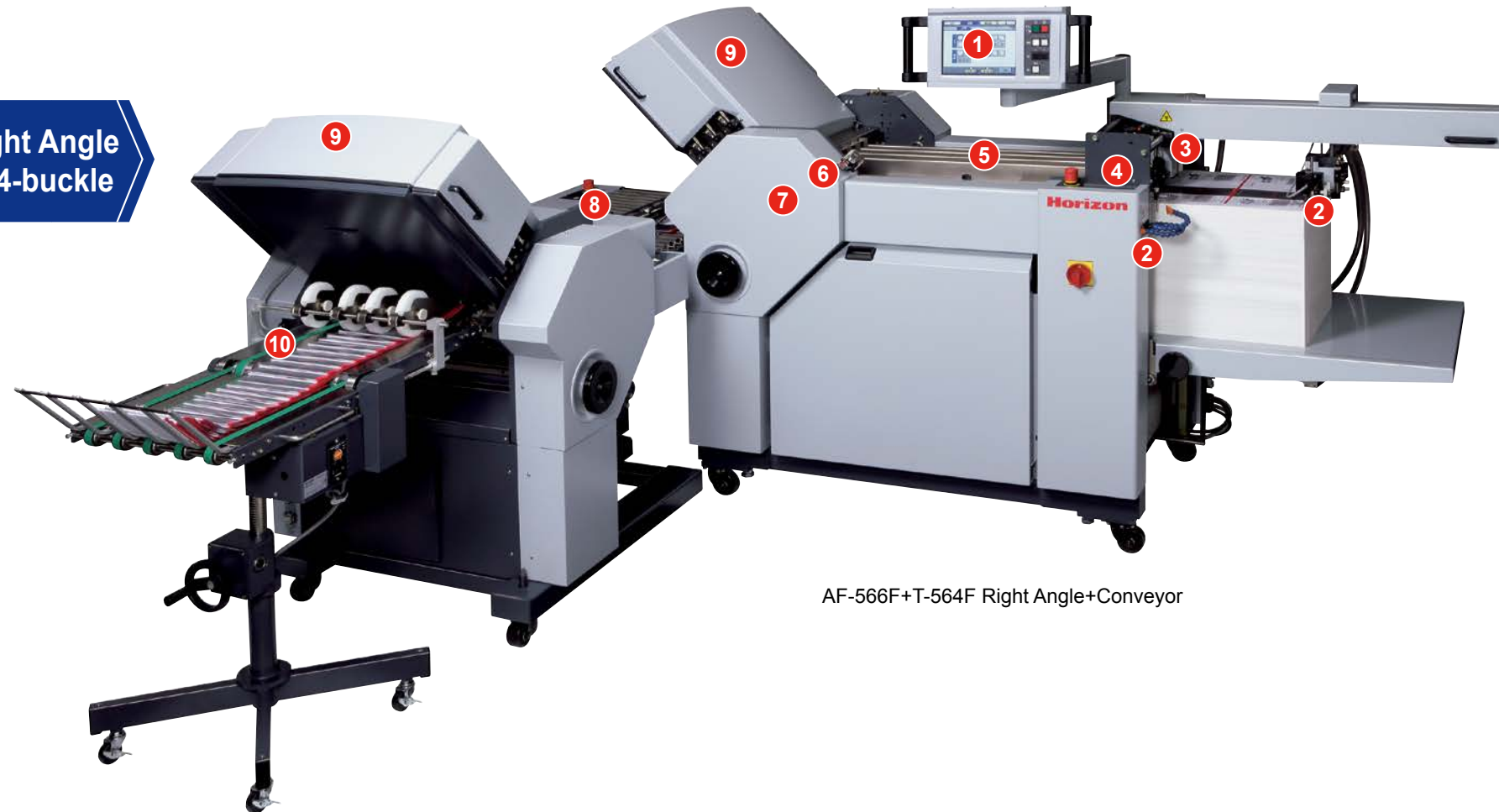
pXnet Bindery Control System based on the view of CIP4

Color LCD Touch-screen ①

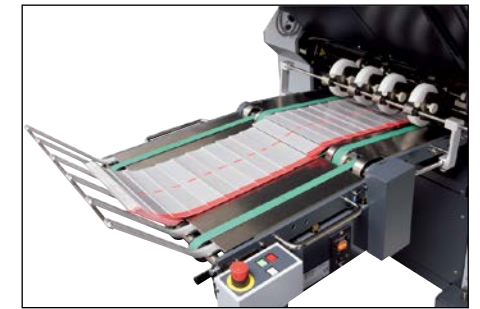
The 10.4 inch color touch-screen is icon-based for user-friendly operation. The graphical interface screen provides intuitive operation for folding setup, speed adjustments and all other fine-adjustments.

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

Right Angle 6+4-buckle



AF-566F+T-564F Right Angle+Conveyor

Delivery Conveyor ⑩

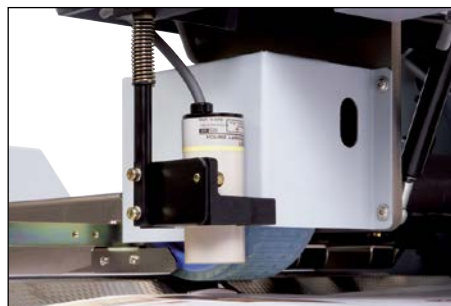
Conveyor height is easily adjusted to the proper sheet delivery height.

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.

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 photoelectric 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 ⑤

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 ⑦

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.

AF-566T4F Major Specifications

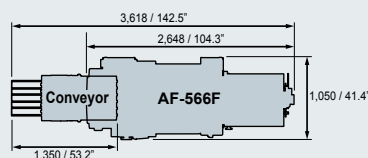
Machine Structure	6/4 (6 Buckles and 4 Buckles)		
	Model	1st Station: AF-566F 2nd Station: T-564F	
Sheet Size	1st Station Max. W558 x L865 mm / 21.970" x 34.000"		
	2nd Station Max. W558 x L558 mm / 21.970" x 21.970"		
	1st Station Min. W128 x L148 mm / 5.040" x 5.830"		
	2nd Station Min. W50 x L128 mm / 1.970" x 5.040"		
Sheet Weight Range	Normal Paper 35 to 209 gsm		
	Art/Coated Paper 50 to 232 gsm		
Buckle Fold Length	1st Station	1st / 2nd / 3rd / 5th Buckle	30 to 450 mm / 1.180" to 17.720"
		4th / 6th Buckle	30 to 360 mm / 1.180" to 14.170"
	2nd Station	1st through 4th Buckle	30 to 360 mm / 1.180" to 14.170"
Belt Speed	30 to 240 meters (98 to 787 feet) per minute		
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz		
	3-Phase 220 V, 50 / 60 Hz		
	3-Phase 400 V, 50 / 60 Hz		
Machine Dimensions	1st+2nd Station : Installation at right angle		
	W3,148 x D2,280 x H1,600 mm / 124.0" x 89.8" x 63.0"		
	1st+2nd Station : Installation at straight		
	W4 285 x D1.050 x H1.600 mm / 168.8" x 41.4" x 63.0"		

Machine Dimensions Unit : mm (inch)

Configuration 1 Stand-alone 6-buckle

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

AF-566F+Conveyor

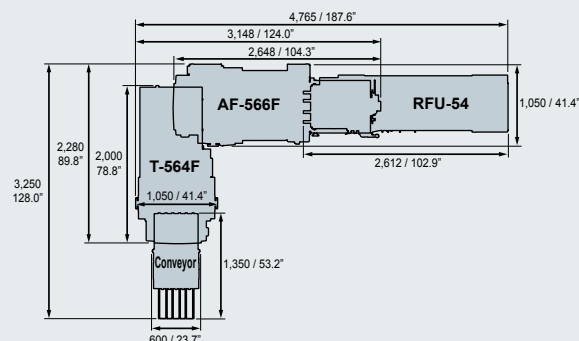


Configuration 2 Right Angle 6+4-buckle



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.

AF-566F+T-564F Right Angle+Conveyor+RFU-54

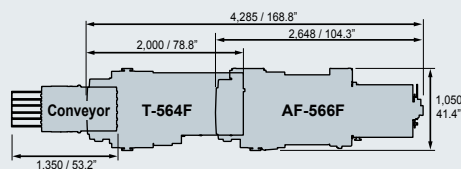


Configuration 3 Straight 6+4-buckle



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

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



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

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