

Horizon



AF-566T4F

Buckle Folder

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



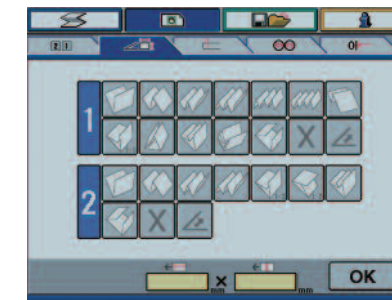
Modular fully-automated folding machine. 6+4-buckle modular concept allows for a variety of fold patterns to cover many applications.

- 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.

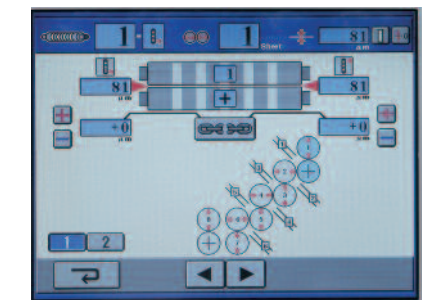
Features

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.

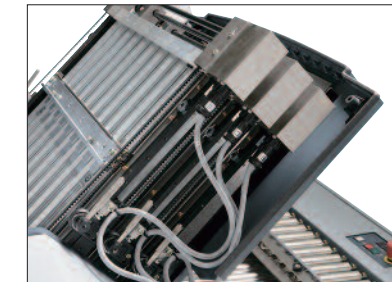
Automated Setup

AF-566F (25 sections in total)

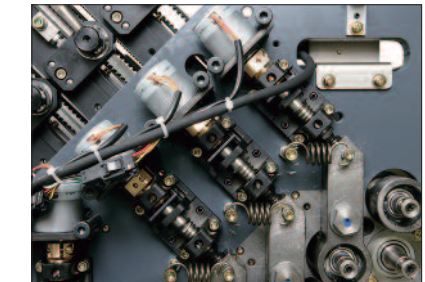
- 1st through 6th Buckle
- Suction Head
- Table Guide
- Side Lay Guide
- Roller Gap Adjustment (16 sections)

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



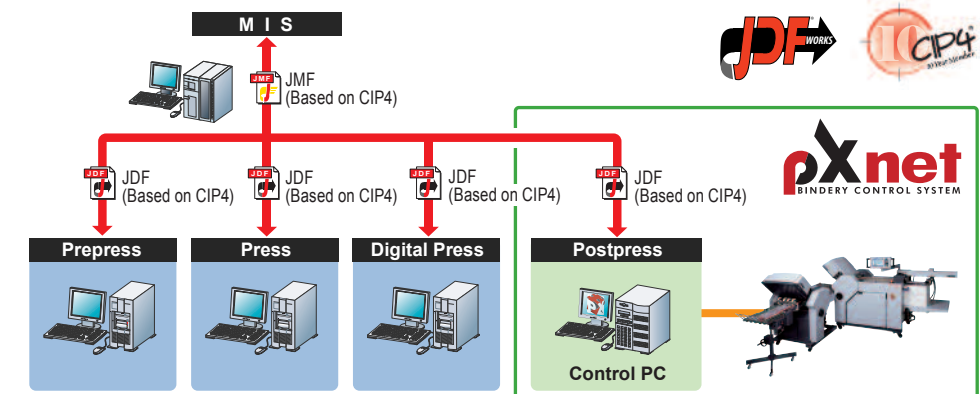
AF-566F + T-564F Straight Configuration + Conveyor

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

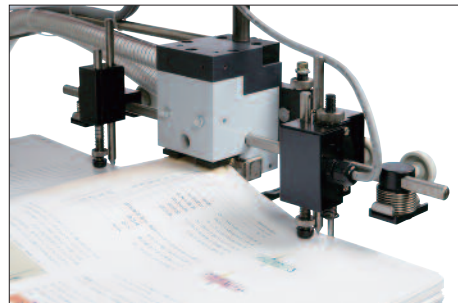


Color LCD Touch-screen 1



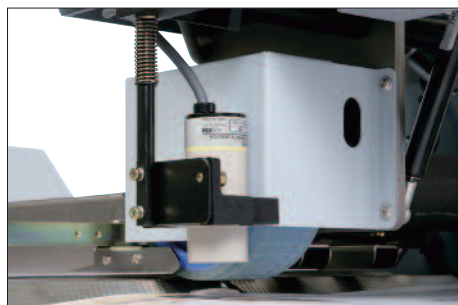
The 10.4 inch color touch-screen is icon-based for user-friendly operation. The graphical interface screen provides intuitive operation for folding setup, speed adjustments and all other fine-adjustments.

Suction Head / Assist Air 2



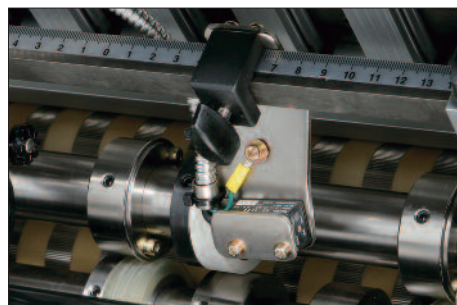
Innovative suction head and assist air provides accurate sheet separation and pick-up. Blowing air volume and height of the suction head can be adjusted according to a sheet's condition for stable feeding of a wide variety of sheets.

Feed Rotor 3



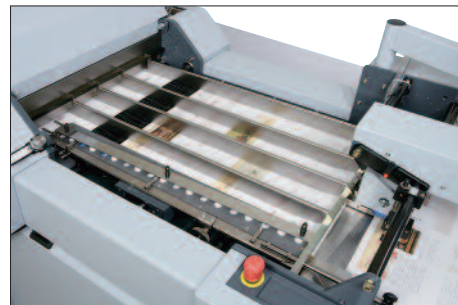
Quality polyurethane rotor provides high speed feeding (42,000 sheets per hour) without scratching. The supersonic and photoelectric double feed detect sensors come standard for superior detection.

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



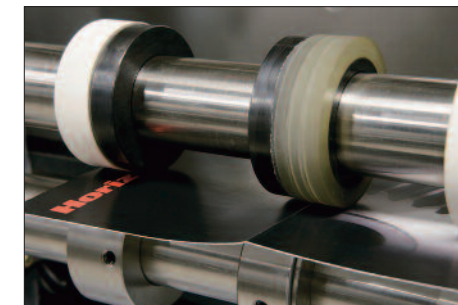
Newly-designed rigid side lay guide ensures stable transportation and accurate registration of a wide range of paper stocks. The side lay guide is coated with a special anti-static plating, for trouble-free operation of printed sheets, even in dry climates, when static electricity can be a problem.

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



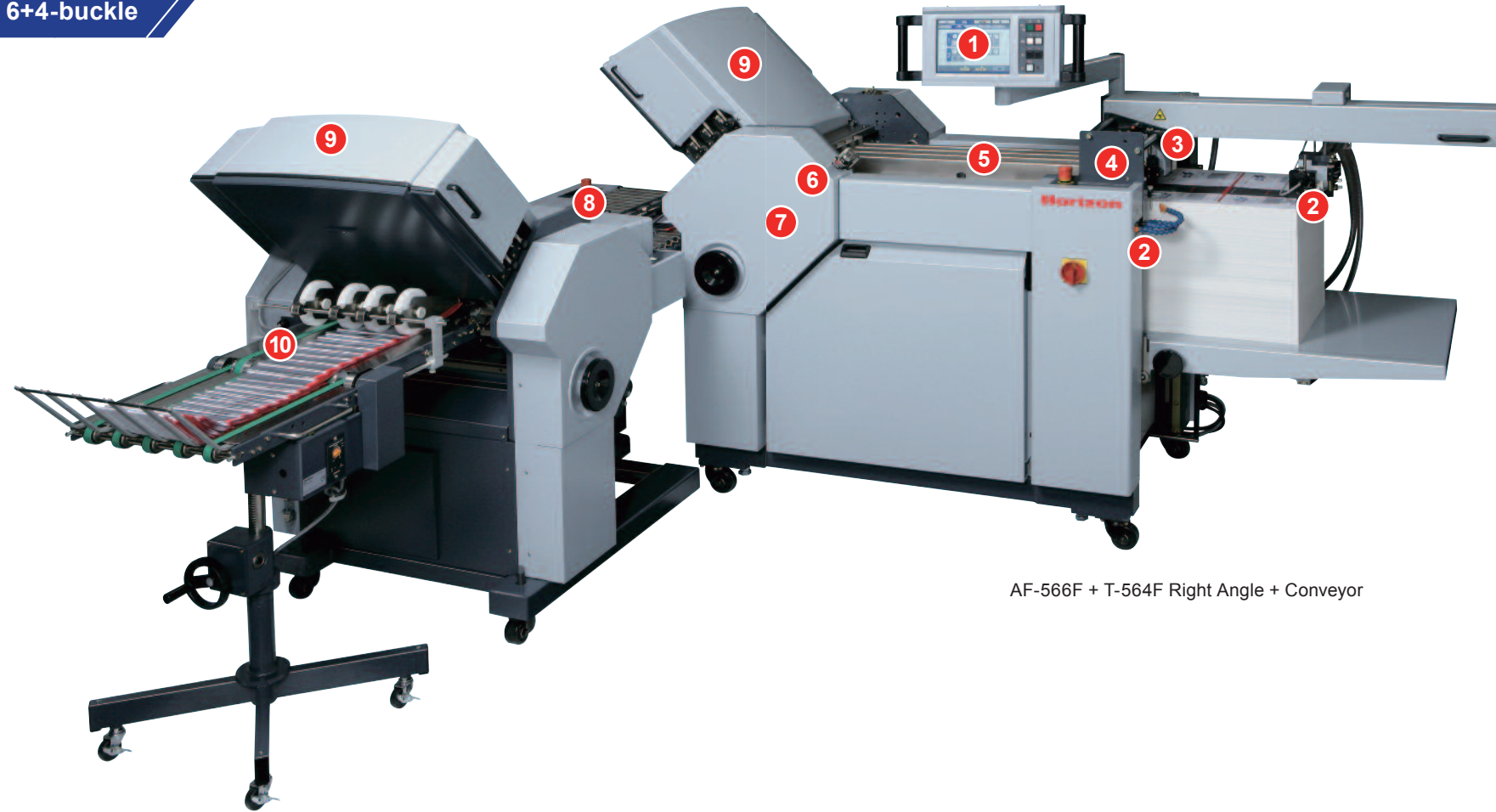
Perforation, slit perforation, scoring and slitting can be performed. Durable scoring unit is employed for accurate scoring. Optional devices are available for strip trimming of multiple-up jobs, trimming the closed side of glued signatures and punch perforation.

Right Angle Conveyor 8



Two configurations allow for a wide variety of fold patterns. Superior sheet aligning capability ensures consistent and accurate folding.

**Right Angle
6+4-buckle**



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

Delivery Conveyor 10

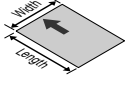


Conveyor height is easily adjusted to the proper sheet delivery height.

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.

AF-566T4F Major Specifications			
Machine Structure	6/4 (6 Buckles and 4 Buckles)		
Model	1st Station	AF-566F	
	2nd Station	T-564F	
Sheet Size		Width x Length	
		1st Station	Max. 558 x 865 mm / 21.970" x 34.000" Min. 128 x 148 mm / 5.040" x 5.830" When connecting with DIF-56 : Max. 558 x 1,200 mm / 21.970" x 47.240"
		2nd Station	Max. 558 x 558 mm / 21.970" x 21.970" Min. 50 x 128 mm / 1.970" x 5.040"
Sheet Weight Range	Normal Paper 35 to 209 gsm Art/Coated Paper 50 to 232 gsm		
Belt Speed	30 to 240 meters (98 to 787 feet) per minute		
Production Speed	Suction Head 42,000 cycles per hour		
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"	
Vacuum Pump	Flow 40m ³ per hour Voltage/Frequency 3-phase ∇230 / Y400 V ± 10 % 50 / 60 Hz Power Consumption 1.8 / 2.2 kW (50 / 60Hz)		
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 Station + 2nd Station : Installation at right angle W3,148 x D2,280 x H1,600 mm / W124.0" x D89.8" x H63.0" 1st Station + 2nd Station : Installation at straight W4,285 x D1,050 x H1,600 mm / W168.8" x D41.4" x H63.0"		

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

Horizon

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