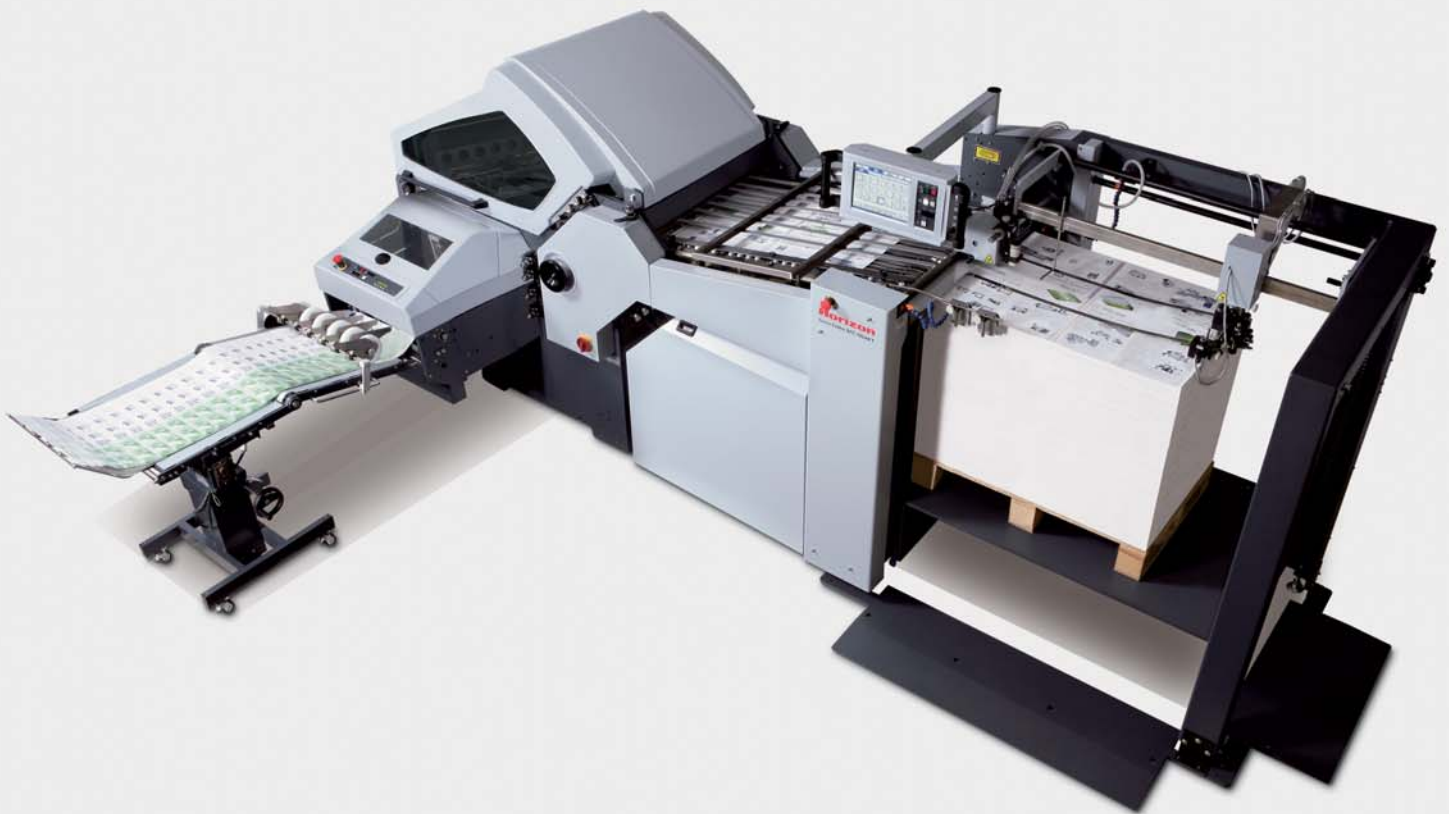


Horizon

AFC-746S/746D



Intelligent automation for ultimate usability.

The AFC-746S/746D adds efficiency to the folding process.

- The folder is easy and intuitive to set-up, even without a skilled operator, thanks to the intelligent automation and user-friendly design.
- 20 fold patterns are automatically set by inputting the sheet size and selecting a fold pattern through the large color touchscreen.
- Equipped with 6 buckles, 1 cross knife and 2 buckles below the knife to support a wide variety of fold patterns.
- 3 different types of feed units can be selected for various work environments: Flat Pile Feeder, Pallet Pile Feeder and Round Pile Feeder.
- High-speed production of 36,000 sheets/hr. (A4 - Parallel Fold) or 11,000 sheets/hr. (625W x 880L mm / 24.6" x 34.6" - 16-page Cross Fold).
- Fold rollers are constructed with a combination of steel and soft polyurethane for superior grip and sharp, consistent folding.
- The AFC-746S/746D can be enhanced with JDF workflow from upstream to the postpress using pXnet bindery control system.



Features

User-friendliness

A large, color touchscreen control panel is icon-based for user-friendly operation. The graphical touchscreen guides the user through all set-up procedures with ease, and allows fast, easy navigation for all other system operations.



Fold Pattern Setup Screen

Setup is completed by selecting the desired fold pattern and inputting the sheet size.



Roller Gap Adjustment Screen

The number of sheets to be inserted into each gap adjust lever is indicated for quick setup.



Fine-adjustment Screen

The guide and buckle positions can be fine-tuned by 0.1 mm with a simple touch of the + or - button.

Advanced Automation

13 sections are set automatically by inputting the sheet size and fold pattern through the touchscreen. Accurate stepper motors allow automated fine-adjustment in increments of 0.1 mm. Advanced automation includes setting of the buckle below the knife and fine-adjustment for the knife guide.

Automated Setup Position (13 Sections)

- Feed Table Guide
- Side Lay Guide
- 1st Buckle
- 2nd Buckle
- 3rd Buckle
- 4th Buckle
- 5th Buckle
- 6th Buckle
- K2 Buckle
- 1st Knife Guide (fine adjustment)
- 2nd Knife Guide (fine adjustment)
- 1st Knife Stopper
- 2nd Knife Stopper



Buckle Section

6 buckles are set automatically according to the input fold pattern.



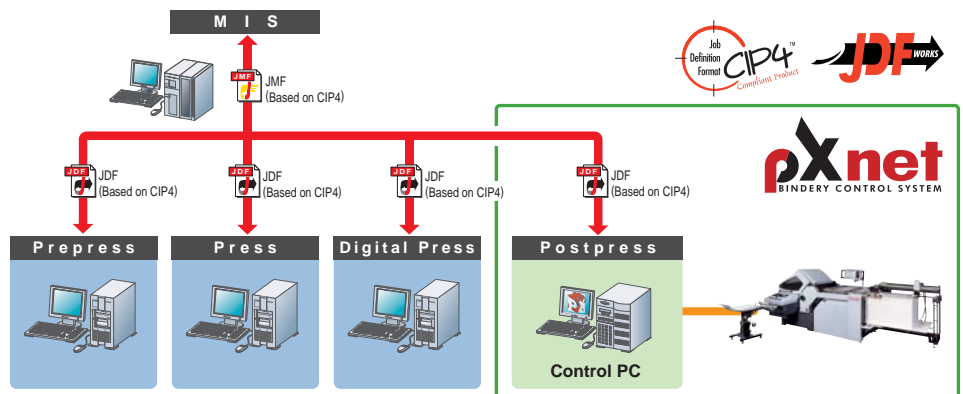
Knife Guide Fine-adjustment

The knife guide can be fine-tuned in the range of +/-0.5 mm.

JDF Workflow Compatibility



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

User-friendliness and flexibility for diverse folding operations.

Auto Shows automated setup sections.

Color LCD Touchscreen 1



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



AFC-746S+FFU-74

Suction Head 7



Innovative suction head 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.

Feed Rotor 8



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

Buckle Auto 2



Buckle stopper and deflector switching can be done automatically for efficient operation. Specially-coated buckle plates minimize paper friction to maintain fold accuracy. Pretension of the bottom lip can be adjusted to prevent waves on the tail edge of the sheet.

Knife Fold Section Auto 3



The knife fold system enables cross folding in a small-footprint. The servo motor controlled knife allows accurate, high speed folding up to 24,000 sheets/hr. (A4 / 8.5" x 11" - 8-page Cross Fold) Two buckles can be installed below the knife for complicated folding (one buckle is standard).

Perforation 4



Perforation, slit perforation, scoring and slitting can be performed. The perforation shaft is quick and easy to install or detach. Optional devices are available for strip trimming of multiple-up jobs, trimming the closed side of glued 8-page signatures and punch perforation.

Folding Rollers 5



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.

Delivery Conveyor 6



Alternative delivery conveyors are available depending on the application requirements. The standard high capacity conveyor is easily adjusted by a hand wheel to the proper sheet delivery height. An optional press stacker PST-40 is available for much tighter folding.

Sheet Transportation Auto 9

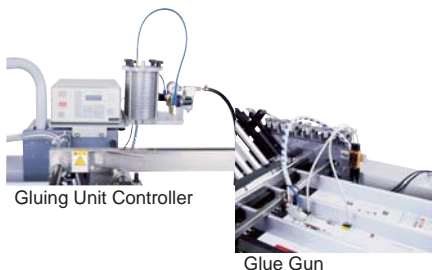


Newly-designed rigid side lay guide ensures stable transportation and accurate registration of a wide range of paper stocks. The side lay guide is coated with a special anti-static plating, for trouble-free operation of printed sheets, even in dry climates, when static electricity can be a problem.

A Wide Range of Options Option

■ Gluing Unit : CGU-50

The gluing unit can produce 8-page or 12-page glued booklets.



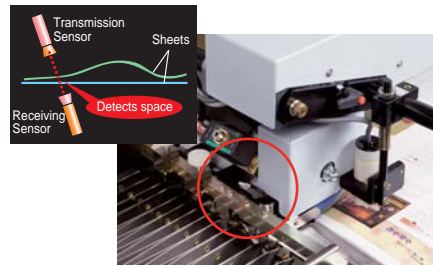
■ Gate Fold Buckle : GFB-74

The gate fold buckle can be set up quickly, with no special skills for precise, accurate closed-gate folding.



■ Supersonic Detector : USS-74

Optional supersonic detector is available for double feed detection. This detects space between sheets for accurate double feed detection even with a solid black printed sheet.



■ Front Perforation Unit : FP-74 (FSP-74)

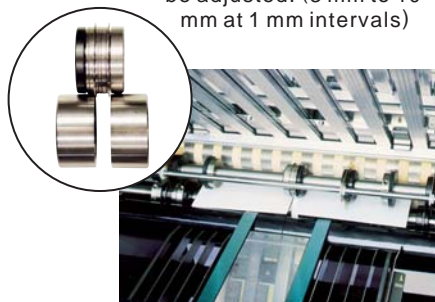
This unit permits perforating before folding. An accurate blade drum provides for high-precision micro perforation. Skip perforation unit (FSP-74) is also available.



*The front perforation unit is a factory option.

■ Strip Trim Device : AF-ST6

Strip trimming after the parallel fold section can be performed using slitters for multiple-up jobs. Stripped width can be adjusted. (3 mm to 10 mm at 1 mm intervals)



■ Strip Trim Device below 1st Knife : KT-ST6

Strip trimming in the cross fold section can be performed using slitters for multiple-up jobs. Stripped width can be adjusted. (3 mm to 10 mm at 1 mm intervals)



■ Edge Trim Device below 1st Knife : KT-ET6

Segmented rollers below the 1st knife are provided as standard parts. Simply attach the KT-ET6 to trim the open/closed side of glued signatures to complete the booklet (8-page, 12-page).



■ Blades

A wide variety of optional blades are available for various applications.



(Unit : mm) (Cut x Blank)

■ Mobile Knife Fold Unit : MKU-54

- The MKU-54 is available as the third knife unit for 32-page folds.
- The knife unit can pivot 180 degrees to allow fold-up or fold-down flexibility.



■ Mobile Knife Fold Unit : MKU-54T

- The MKU-54T is available as the third knife unit for 32-page folds.
- Two buckles can be attached below the knife (one buckle is standard).



■ Press Stacker : PST-40

- The first rollers remove the air and the second rollers powerfully compress the signatures for reduced bulk and tighter folds.
- Signatures can be offset separated individually or by group, depending on job requirements.



■ Press Stacker with Pile Delivery : PSX-56

- Stacked signatures or booklets are delivered to a comfortable height for easy packaging.
- Applications can be stacked 1-up, 2-up or 3-up for efficient production.
- Rigid, large diameter rollers apply 1.2 tons of pressure for crisp, tight and flat folds.



3 Types of Feed Units Selection

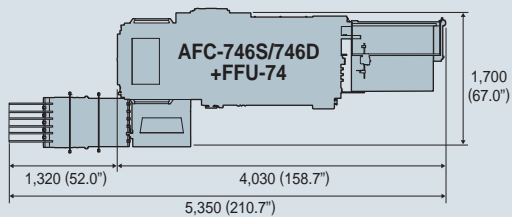
Flat Pile Feeder

AFC-746S/746D+FFU-74

- The feed table automatically descends for sheet loading to maintain proper distance between the top of piled sheets and the feed rotor.
- Maximum pile height is 750 mm (29.5").

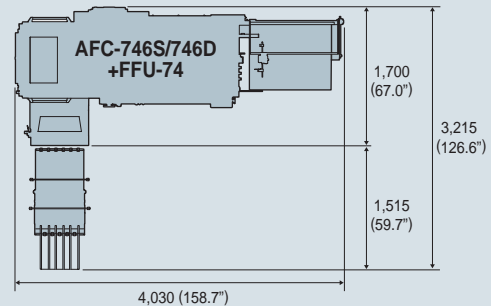
AFC-746S/746D+FFU-74 16-page Cross Fold

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



AFC-746S/746D+FFU-74 8-page Cross Fold

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



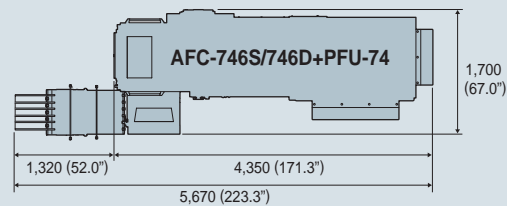
Pallet Pile Feeder

AFC-746S/746D+PFU-74

- The pallet feeder unit accepts the piled sheets from the printing press to maximize operator convenience and to minimize production time.
- Maximum pile height is 1,200 mm (47.2") (pallet included).

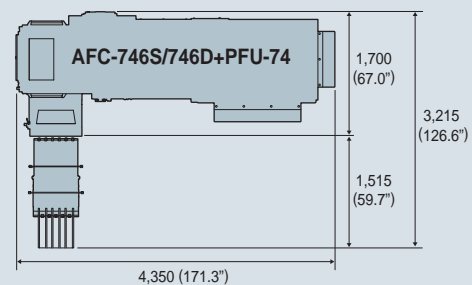
AFC-746S/746D+PFU-74 16-page Cross Fold

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



AFC-746S/746D+PFU-74 8-page Cross Fold

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



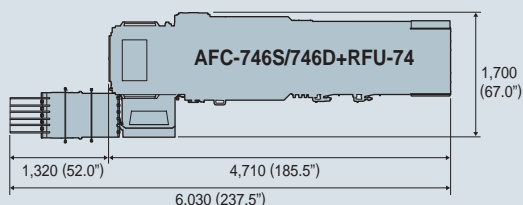
Round Pile Feeder

AFC-746S/746D+RFU-74

- The round pile feeder unit can feed a wide range of sheets including prefolded, preperforated or prepunched sheets.
- Continuous loading is available for non-stop production.

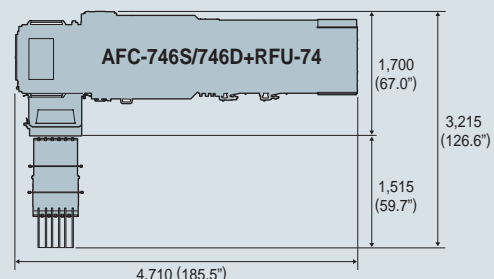
AFC-746S/746D+RFU-74 16-page Cross Fold

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



AFC-746S/746D+RFU-74 8-page Cross Fold

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



AFC-746S/746D Major Specifications

Machine Structure			Voltage / Frequency		with Flat/Pallet Pile Feeder	3-Phase 200 / 220 / 400 V, 50 / 60 Hz, 3-Phase 208 / 240 V, 60 Hz
Max. Sheet Size					with Round Pile Feeder	3-Phase 200 / 220 / 400 V, 50 / 60 Hz
						200 V, 50 Hz, 10.0 A / 60 Hz, 11.4 A
						208 V, 60 Hz, 11.2 A
						240 V, 60 Hz, 11.0 A
						400 V, 50 Hz, 5.0 A / 60 Hz, 5.7 A
						200 V, 50 Hz, 10.0 A / 60 Hz, 12.1 A
						208 V, 60 Hz, 12.0 A
						220 V, 50 Hz, 11.0 A / 60 Hz, 12.0 A
						400 V, 50 Hz, 5.0 A / 60 Hz, 6.0 A
						200 V, 50 Hz, 8.4 A / 60 Hz, 10.3 A
						220 V, 50 Hz, 8.7 A / 60 Hz, 10.0 A
						400 V, 50 Hz, 4.0 A / 60 Hz, 4.5 A
						200 V, 50 Hz, 5.0 A / 60 Hz, 5.3 A
						220 V, 50 Hz, 2.9 A / 60 Hz, 3.5 A
						400 V, 50 Hz, 2.9 A
						200 V, 50 Hz, 2.6 kW / 60 Hz, 3.3 kW
						208 V, 60 Hz, 3.4 kW
						220 V, 50 Hz, 2.7 kW / 60 Hz, 3.4 kW
						240 V, 60 Hz, 3.5 kW
						400 V, 50 Hz, 2.6 kW / 60 Hz, 3.3 kW
						200 V, 50 Hz, 2.6 kW / 60 Hz, 3.5 kW
						208 V, 60 Hz, 3.5 kW
						220 V, 50 Hz, 2.7 kW / 60 Hz, 3.5 kW
						240 V, 60 Hz, 3.6 kW
						400 V, 50 Hz, 2.6 kW / 60 Hz, 3.5 kW
						200 V, 50 Hz, 2.3 kW / 60 Hz, 3.1 kW
						220 V, 50 Hz, 2.4 kW / 60 Hz, 3.1 kW
						400 V, 50 Hz, 2.2 kW / 60 Hz, 3.0 kW
						200 V, 50 Hz, 1.9 kW / 60 Hz, 2.0 kW
						220 V, 50 Hz, 1.2 kW / 60 Hz, 1.3 kW
						400 V, 50 Hz, 1.3 kW
						5,800 kJ (1,380 kcal)
						6,120 kJ (1,460 kcal)
						5,590 kJ (1,340 kcal)
						1.5 kW x 1, 0.4 kW x 2, 40 W x 1, 0.4 kW x 1 (Servo), 0.2 kW x 1 (Servo)
						1.5 kW x 1, 0.75 kW x 1, 40 W x 1, 0.4 kW x 1 (Servo), 0.2 kW x 1 (Servo), 3.7 kW x 1 (Pump)
						1.5 kW x 1, 0.2 kW x 1, 40 W x 1, 0.4 kW x 1 (Servo), 0.2 kW x 1 (Servo), 3.7 kW x 1 (Pump)
						4,030(W) x 1,700(D) x 1,690(H) mm (158.7" x 67.0" x 66.6")
						4,350(W) x 1,700(D) x 1,690(H) mm (171.3" x 67.0" x 66.6")
						4,710(W) x 1,700(D) x 1,690(H) mm (185.5" x 67.0" x 66.6")
						1,515(W) x 740(D) x 1,070(H) mm (59.7" x 29.2" x 42.2")
						6,245(W) x 3,915(D) mm (245.9" x 154.2")
						6,565(W) x 3,915(D) mm (258.5" x 154.2")
						6,925(W) x 3,915(D) mm (272.7" x 154.2")
						Main Body : 1,270 kg (2,800 lb), Feeder : 540 kg (1,191 lb), Conveyor : 81 kg (179 lb), Vacuum Pump : 71 kg (157 lb), Transformer : 45 kg (99 lb) [Total 2,007 kg (4,425 lb)]
						Main Body : 1,270 kg (2,800 lb), Feeder : 700 kg (1,544 lb), Conveyor : 81 kg (179 lb), Vacuum Pump : 71 kg (157 lb), Transformer : 45 kg (99 lb) [Total 2,167 kg (4,778 lb)]
						Main Body : 1,270 kg (2,800 lb), Feeder : 850 kg (1,874 lb), Conveyor : 81 kg (179 lb), Transformer : 45 kg (99 lb) [Total 2,246 kg (4,952 lb)]

*1 1 buckle is standard.

Options

*2 Factory Option

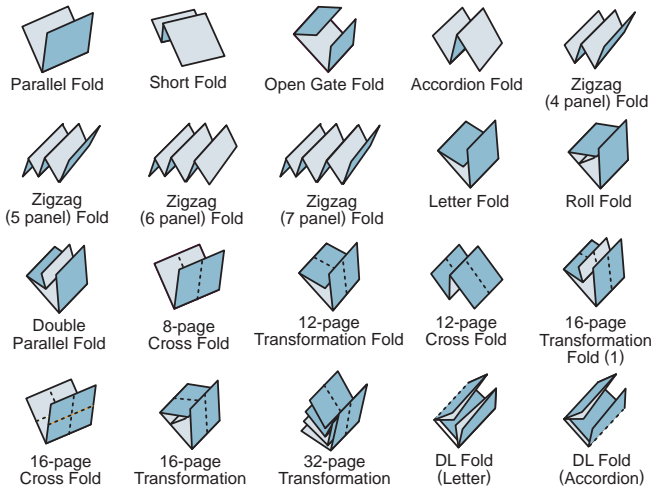
- Press Stacker : PST-40
- Mobile Knife Fold Unit : MKU-54/MKU-54T
- Press Stacker with Pile Delivery : PSX-56
- Supersonic Detector : USS-74
- Gluing Unit Kit : CGU-K74²
- Front Perforation Unit : FP-74²
- Gate Fold Buckle : GFB-74
- Gluing Unit : CGU-50
- Automated Buckle below 1st Knife
- Image Checking System : IC-AFC²/IC-AF²
- Strip Trim Device : AF-ST6
- Strip Trim Device below 1st Knife : KT-ST6
- Edge Trim Device : AF-ET6
- Edge Trim Device below 1st Knife : KT-ET6
- Punch Perforation Unit : AF-PP6
- Punch Perforation Unit below 1st Knife : KT-PP6
- Perforation Unit below 2st Knife : MS-2K
- Front Skip Perforation Unit : FSP-74
- Blades (Scoring/Slit Perforation/Slitter/Perforation Blade)
- pXnet

Product Configuration

Product	Knife Stopper Automatic Fine-adjustment	Deflector below Knife	Front Buckle below Knife	Rear Buckle below Knife	GS	Supersonic Detector (Feeder)
AFC-746S	○	○	Option	○	×	Option
AFC-746D	○	○	Option	○	○	Option

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

20 Fold Patterns



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

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