

Horizon



AF-406T6A

Buckle Folder

**Compact and automated
buckle folder.**



Versatile and Flexible folding machine performs diverse folding operations.

Horizon's AF-406T6A adds a new dimension to pharmaceutical folder with short make-ready and intuitive operation.

- Graphical color touchscreen controls are intuitive for quick operator training and efficient operation.
- Advanced and accurate automation achieve short make-readies that reduces paper waste and energy consumption.
- 6+6-buckle modular concept allows for simple to complex fold patterns that maximize folding variations.
- Steel and soft-formed polyurethane combination rollers are employed for easy adjustment of roller gap pressure and short make-ready.
- Pharmaceutical folds can be set up automatically. Small fold dimensions down to 20 mm (0.79") can also be performed.
- The optional pXnet bindery control system makes job scheduling and tracking for the AF-406T6A super efficient, or accept JDF setup data from an upstream workflow.

Automated Setup (13 Sections) Auto

(*Sections shown with "Auto" icon in this brochure are automatically set up.)

AF-406A

- Side Lay Guide
- 1st through 6th Buckle

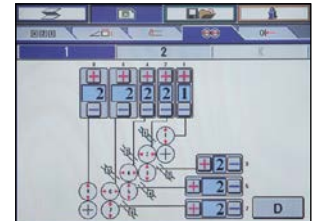
T-406A

- 1st through 6th Buckle

Graphical User Interface



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



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

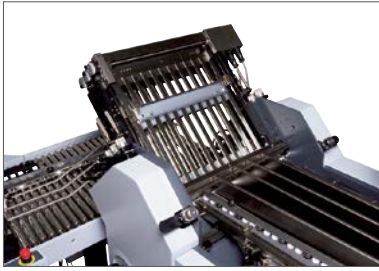
Stand-alone
6-buckle



AF-406A+Standard Conveyor

Features

Advanced Automation



Various fold patterns are automatically set by selecting the sheet size and fold pattern through the touchscreen. Advanced automation allows fine-adjustment by 0.1 mm.

Intuitive Operation



The 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



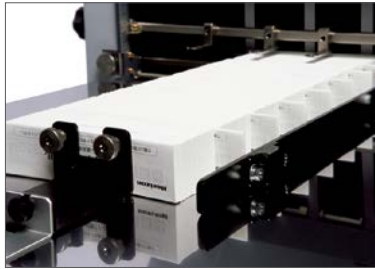
Superior and consistent fold quality is ensured with small diameter (30 mm) steel and soft-formed polyurethane combination rollers. Even pharmaceutical folds can be performed easily.

Flexible Modular Design



6+6-buckle modular concept allows for flexible modular configuration and simple to complex fold patterns to cover most applications. 6-buckles on the 1st station and 6-buckles on the 2nd station can be combined as needed.

Standing Delivery Unit



Optional standing delivery unit is available to operate concertina / small format folding jobs more efficiently. Off-set stacking can be performed for accurate counting control.

Reliable Counting Mechanism



Double counter is equipped as standard at both feeder and delivery sections. This enables jobs that require accurate counting control, such as pharmaceutical folding.

**Straight
6+6-buckle**



AF-406A+BG-406(Optional)+T-406A Straight Configuration+ED-40

Control Panel 1



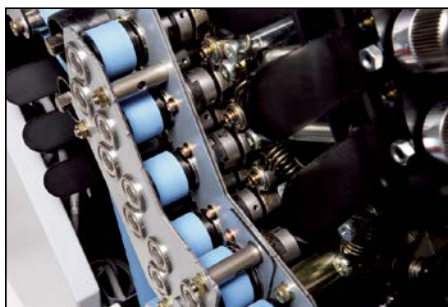
- Major settings can be performed easily through the icon-based color touchscreen.
- Up to 200 job settings can be memorized for quick and easy recall of regular jobs.
- Separate counters at the feeder and delivery ends of the folder can be set up for reliable, high security counting.

Buckle Auto 2



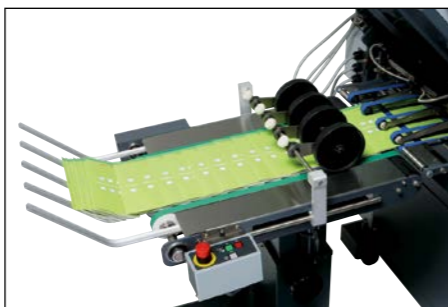
- Specially-coated buckle plates minimize paper friction to maintain fold accuracy.
- All the buckles are set up automatically with precise stepper motor drives for the sheet size and fold pattern selected.
- Each buckle has an integrated deflector/stopper.

Fold Roller Drive 3



- Flexible cross couplings are employed for consistent drive of the fold rollers -- even with thick paper or complex folds -- and accurate folding performance over a long machine life.
- Horizon's unique belt drive system provides reliable, quiet operation.

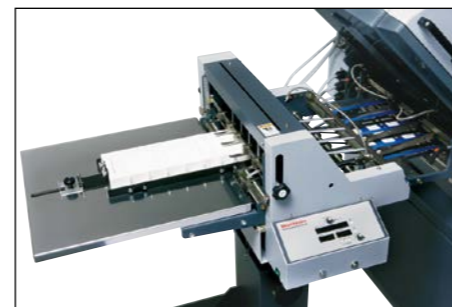
Delivery Conveyor 4



Standard Conveyor

- Conveyor height is easily adjusted by the hand wheel to the proper sheet delivery height.

*Standard accessory of AF-406A.



Standing Delivery Unit: ED-40 (Option)

- Optional standing delivery is prepared for small size stacks. This stacker includes batch counting for off-set stacking.

Side Lay Guide Auto 5



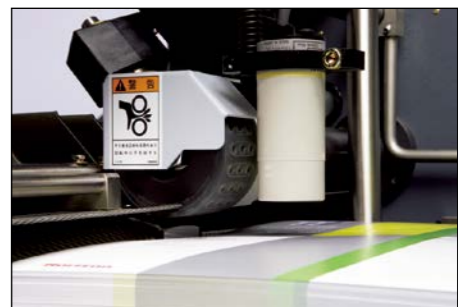
- The side lay guide is coated with a special anti-static plating.
- Uniquely designed rigid side lay guide ensures accurate and smooth transportation of a wide range of paper stocks.
- Superior sheet aligning capability ensures consistent and accurate folding.

Suction Head / Assist Air 6



- Innovative position detecting system precisely positions the suction head to ensure stable feeding.
- Easy air adjustment provides smooth feeding of various paper stocks.
- Side blowing assist air is employed for fast, consistent feeding.

Feed Rotor 7



- Quality polyurethane rotor provides high speed feeding without scratching.
- Feed timing and feed interval can be adjusted through the touchscreen.
- Suction angle can be adjusted easily for various sheet types.

Right Angle 6+6-buckle



AF-406A+BG-406(Optional)+T-406A Right Angle Configuration+ED-40

Right Angle Conveyor 9



- Connected to the first station at a right angle, 6+6-buckle modular allows complex folding such as pharmaceutical fold and DL fold.
- Superior sheet aligning capability ensures consistent and accurate folding.

Perforating / Scoring 8



- Perforating, scoring and slitting can be performed.
- Scoring is performed with urethane grooved lower rollers for easy score positioning.
- 3 sets of cutter blade holders and perforation blades are provided as standard equipment.
- 2 sets of scoring rollers come as standard equipment.

AF-406T6A Major Specifications

Machine Structure	6/6 (6 Buckles and 6 Buckles)	
Sheet Size	Max. W400 x L650 mm / 15.750" x 25.590" Min. W50 x L100 mm / 1.970" x 3.940"	
Sheet Weight Range	35 to 157 gsm	
Buckle Fold Length	1st Station	1st / 3rd / 5th Buckle 20 to 350 mm / 0.790" to 13.780"
	2nd / 4th / 6th Buckle	20 to 260 mm / 0.790" to 10.240"
Belt Speed	2nd Station	1st through 6th Buckle 20 to 260 mm / 0.790" to 10.240"
	50 to 180 m (164 to 590 ft) / min.	
Voltage / Frequency	3-Phase 200 V, 50 / 60 Hz	
	3-Phase 220 V, 50 / 60 Hz	
	Single Phase 230 V, 50 Hz	
Machine Dimensions	1st+2nd Station : Installation at right angle W2,620 x D2,840 x H1,500 mm / 103.2" x 111.9" x 59.1"	
	1st+2nd Station : Installation at straight W4,280 x D910 x H1,500 mm / 168.5" x 35.9" x 59.1"	

Options

- Image Checking System
- Barcode Reader
- Strip Trim Device : AF-ST4
- Edge Trim Device : AF-ET4
- Skewed Folding Detector
- Water Scoring
- Gate Fold Buckle : GFB-40
- Reversing Buckle : RB-40
- Press Stacker : PST-40
- Mobile Knife Fold Unit : MKU-54
- Standing Delivery Unit : ED-40
- Bridge Conveyor Unit : BG-406¹
- Mobile Knife Unit : KTU-40
- Press Roller Unit : PR-40
- pXnet
- Parallel Fold Unit : KTU-PL²
- Bypass Unit : KTU-KB²

¹ Required for AF-406A when connecting T-406A. Included in T-406A as standard.
² Option for KTU-40.

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

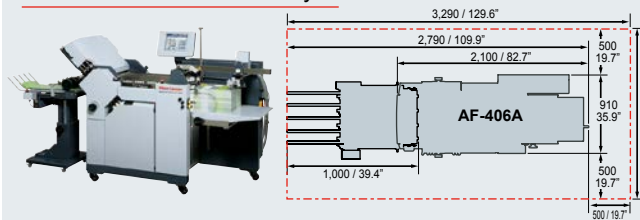
Machine Dimensions and Installation Space Unit : mm (inch)

Configuration 1 Stand-alone 6-buckle

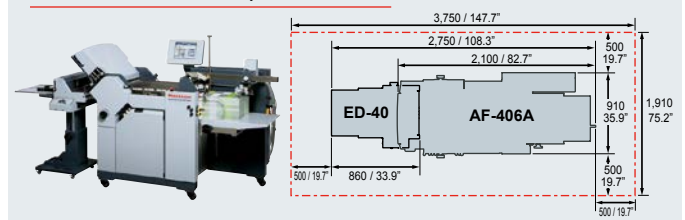


Stand-alone 6-buckle configuration for brochure or leaflet folding.

AF-406A+Standard Conveyor



AF-406A+BG-406(Optional)+ED-40

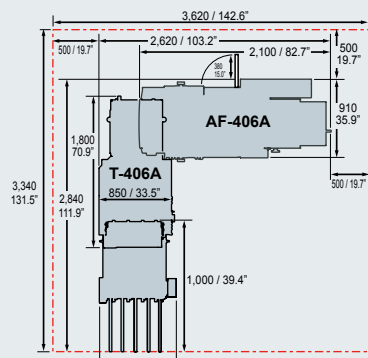


Configuration 2 Right Angle 6+6-buckle

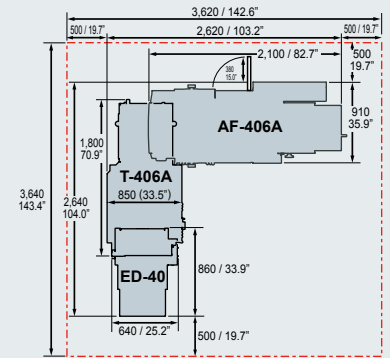


6+6-buckle modular system with the right angle conveyor for pharmaceutical and DL folding. This configuration also allows scoring on the first station and folding on the second station for heavier weight stocks.

AF-406A+T-406A Right Angle+Standard Conveyor



AF-406A+BG-406(Optional)+T-406A Right Angle+ED-40

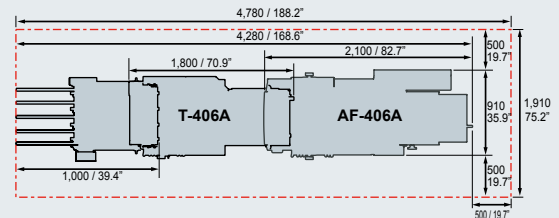


Configuration 3 Straight 6+6-buckle



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

AF-406A+T-406A Straight+Standard Conveyor



Distributed by

HORIZON INTERNATIONAL, INC.

510 Kuze Ooyabu-cho, Minami-ku, Kyoto, 601-8206, Japan Phone : +81-(0)75-934-6700, Fax : +81-(0)75-934-6708, www.horizon.co.jp