

# Horizontal Flow Wrapper Packaging Systems



# Innovative Systems for Flexible Packaging

**PAC Machinery**  
More experience. Better choices.

PAC Machinery offers a family of horizontal flow wrappers that range incrementally in size and sophistication. The entry-level FW 350T Flow Wrapper is a versatile machine with a small footprint. This flow wrapper is the perfect choice for new applications, smaller production demands or for adding to existing production capacity. The top-of-the-line FW 450HS is a servo-driven, state-of-the-art, high-speed flow wrapper that can be integrated with ultra-fast automated loading devices. The FW 450HS can propel production capabilities to a new level.

Every PAC Machinery flow wrapper is available with a wide variety of unique options. This means each machine can be "dialed in" for a specific application. With this level of built-in versatility, it is no longer necessary to cater to the limitations of the packaging machine. Whether it is a chiller set-up for frozen desert novelties, gas flush option for preservation of freshness, or increasing speed with automated loading devices, there is a PAC flow wrapper for virtually every application.

## Flow wrapper solutions from PAC Machinery

Perhaps because of their incredible versatility, flow wrappers have become a ubiquitous packaging tool that may be found in use around the globe. Because the machine can be configured for so many applications, they have become the mainstay of countless packaging lines. From energy bars to solar cells, these packaging machines create attractive, protective packaging for everything under the sun.

Horizontal flow wrappers perform three individual tasks in one fluid and continuous operation. From a roll of material, they form a bag around a product, seal the bag on three sides and discharge the finished package. The packages are highly protective, consistent in size and shape, and visually attractive. And the right machine, configured properly for the product, can package at lightening speed.

Horizontal flow wrappers from Packaging Aids (a PAC Machinery company) are an ideal choice for any business ranging in size from small-scale operation to start-up to the large enterprise requiring high-speed, high-volume packaging. PAC flow wrappers are used to package muffins to medical devices and everything in between.







### FW 350T Horizontal Flow Wrapper

The FW 350T is a compact horizontal flow wrapper that's ideal for individually packaging a wide variety of products. This model is appropriate when utilizing unprinted or random print film. The FW 350T provides the adjustability for a range of product sizes with speeds up to 100 packages per minute. The optional machine stand positions the integrated loading conveyor at an ergonomic height and casters allow for easily relocating the machine around your facility.

- Single or Twin end sealing jaw configurations for speeds up to 100 packages per minute
- Unprinted or random print film capability
- Adjustable former standard
- Easy to operate control panel
- Date / Lot code printer optional



### FW 400F Horizontal Flow Wrapper

The FW 400F is a floor model horizontal flow wrapper with a six foot in-feed conveyor to allow for multiple operator product loading. This flow wrapper includes a precision photoeye as a standard feature for packaging with print registered film. The FW 400F can operate at up to 200 packages per minute. This unique flow wrapper may be configured with a wide array of features and can accommodate an endless variety of products.

- Single or Twin end sealing jaw configurations for speeds up to 200 packages per minute
- Precision photocell for registered print film capability
- PLC with Touchscreen HMI for easy setup, trouble shooting, and operation
- Conveyor belt outfeed with available brush assist
- Date / Lot code printer or thermal transfer printer options





## FW 450FH Horizontal Flow Wrapper

The FW 450FH is high speed flow wrapper intended for soft, flexible, or oddly shaped products. The conveyor guide end sealing assembly supports products as they transition through the end sealing jaws to the belt fed outfeed conveyor. Four independent temperature controllers allows for packaging speeds up to 225 packages per minute. The FW 450FH includes a precision photocell for packaging registered print film with accuracy.

- Single or Twin end sealing jaw configurations for speeds up to 225 packages per minute
- Precision photocell for registered print film capability
- PLC with touchscreen HMI for easy setup, troubleshooting, and operation
- Fin seal brush and outfeed assist brush standard
- Rotary end sealing jaws with conveyor product support

## FW 450S Horizontal Flow Wrapper

The FW 450S is a high speed, servo controlled horizontal flow wrapper. This machine includes three independent servo motors for the ultimate in precision control. The servo controlled in-feed conveyor provides automatic product positioning, servo controlled end sealing jaws match film speed automatically, while the servo controlled film unwind provides perfect tension. This model offers a no product, no bag feature to eliminate waste with empty bags. The touchscreen controller offers storage of up to 50 recipes for fast product changeover and setup. Precision photocell is a standard feature for packaging with print registered film.

- Single or Twin end sealing jaw configurations for speeds up to 250 packages per minute
- 3 independently controlled servo motors
- Precision photocell for registered print film capability
- PCL with touchscreen controller
- 50 recipe storage
- No product, no bag feature standard





### **FW 450HS Horizontal Flow Wrapper**

The FW 450HS is a state-of-the-art high speed flow wrapper for the ultimate in control and ease of operator changeover and set-up. This model includes four independent servo motors for controlling in-feed conveyor, fin sealing wheels, end sealing jaws, and film unwind. This machine offers a no product, no bag feature to eliminate waste and ensure empty bags aren't produced with variable loading speeds. Additionally, product detection allows for packaging with random product length and monitoring for no gap, no seal to prevent product damage. The FW 450HS is available with up to four sets of end sealing jaws with packaging speeds up to 300 packages per minute.

- Single, Twin, or Quad end sealing jaw configurations for speeds up to 300 packages per minute
- 4 independently controlled servo motors
- Precision photocell for registered print film capability
- PLC with touchscreen controller
- 50 recipe storage
- No product-no bag, no gap-no seal features standard

**Flow wrappers are available with a wide variety of features and options that can be configured to suit every application.**

- Date / Lot code printers
- Thermal transfer printers
- A wide variety of in-feed conveying options
- Gas flush for modified atmosphere packaging
- Water cooling for products sensitive to heat
- End seal, cutting style, and hang hole options
- Many adjustable and fixed former options
- Perforation wheels to allow venting of film
- Cross-feeding conveyor for easier loading



◀ *Delicate product conveyor with carrier card in-feed guide rails to handle product transitioning to the custom fixed former.*



◀ *Deluxe Adjustable Former provides an improved film flow, similar to a fixed former while maintaining versatility*

## Flow wrapper specifications

Model	FW 350T	FW 400F	FW 450FH	FW 450S	FW 450HS
Conveyor length	32"	60"	72"	96"	96"
Maximum film width	13.75"	16"	17.5"	17.5"	17.5"
Bag length	3" to 9"	3.25" to 12.5"	3.25" to 12.5"	3.25" to 19.5"	3.25" to 19.5"
Maximum product width	4.5"	4.75"	5.75"	5.75"	5.75"
Maximum product height	3"	3"	2.25"	3"	3"
Max Speed (single/dual jaw)*	60/120	100/200	150/225	150/250	150/300
Dimensions (LxDxH)	53" x 31" x 35"	112" x 32" x 60"	150" x 37" x 61"	152" x 40" x 62"	153" x 45" x 63"
Print registration	No	Yes	Yes	Yes	Yes
Electrical requirements	220v, 1-ph. 15A	220v, 1-ph. 15A	220v, 3-ph. 15A	220v, 3-ph. 30A	220v, 3-ph. 30A

*\*Speed dependant on product dosage*

Integrated conveyor  
with carrier card rails  
for indexing products



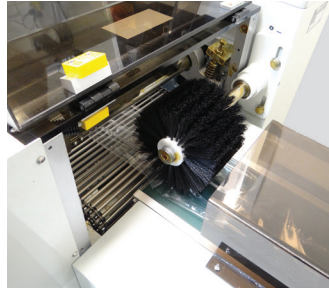
Custom configured FW 450FH ▶







Easy to read touchscreen controller with 50 recipe storage for fast product setup and changeover.



End seal support conveyor and adjustable end seal brush help to transition product seamlessly, along an even plane, to the belt fed out-feed conveyor.



Water cooling system to prevent melting of products that are sensitive to heat.

*Optional perforation wheel to permit air to escape from package*

*Photocell for controlling print registration*

*PLC with touchscreen HMI for ease of operation and setup*

*Belt fed outfeed for product takeaway*

*Custom fixed former for perfect package shape*

*Dual heated fin wheel for higher speed sealing*

*Single jaw for larger products or twin end seal jaws for higher speed and smaller products*

◀ **Custom configured FW 450FH**

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More experience. Better choices.

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