

**Packaging Machinery**

**The  
Green  
World**

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# The green world





***Hygiene, transportability, aesthetics, information:  
guaranteed with the advanced PFM packaging  
solutions.***

PFM deals with the numerous packaging needs of the fruit and vegetable industry on a daily and direct basis.

PFM Green World is a range of horizontal flow-pack wrapping machines specially designed for packaging fruit and vegetables.

Our packaging machines have been studied in every detail and allow users to decide how best to use the machine based on their specific requirements.

The PFM Green World offers high technology and zero defects, no maintenance and maximum efficiency, even 24 hours a day.

# Swift



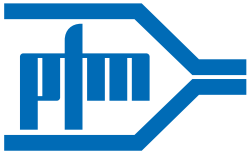
**Swift and Hurricane:** A rotary Flow-Pack wrapping machine for producing closed wraps sealed on three sides from a reel of heat-seal material, even micro-perforated. It is also designed to wrap fruit and vegetables at high speeds, with or without tray. Available in mechanical or electronic version with reel widths of 500 mm or 700 mm.

- **Attractive wraps:** with resistant, creaseless and perfectly positioned seals. Thanks to the numerous adjustment possibilities and the special forming tunnel, products can be wrapped and sealed in such a way as to satisfy even the most demanding aesthetic requirements.
- **Two-minute changes:** the self-centring reel holder, forming tunnel, calender and wrap length are adjustable and have been designed for operators who know what they have to do.
- **Easy cleaning:** a fundamental factor in the fruit and vegetable sector and therefore a primary consideration during the design of the PFM machines. Mechanical units, protected electronics, open loading belt with contact parts in AISI 304 stainless steel.



## Technical Data:

- Bag length adjusted by means of a mechanical variation unit.
- 3 wheel units with preheating bar option.
- Reel width of 500 mm.
- Self-centring reel holding shaft.
- Interchangeable, rapid release product pushers.
- Motorized discharge conveyor.
- Adjustable calender and forming tunnel.



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- **Electronic version:** equipped with two brushless motors with axis controller. The bag length in mm is programmed by means of an alphanumeric keyboard. Print centring is automatic.



# Hurricane



## Technical Data:

- Electronic bag length adjustment by means of a keyboard or mechanical variation unit.
- 3 wheel units for longitudinal sealing with preheating bar option.
- Reel width of 500 mm or 700 mm.
- Self-centring reel holder.
- Interchangeable, rapid release product pushers.
- Motorized discharge conveyor.
- Adjustable calender and forming tunnel.

# Shamal



**SHAMAL** is a horizontal flow pack type packaging machine that produces sealed packs, in air-tight form as well with three seals originating from a wrapping material sealer reel. Shamal has also been designed for M.A.P. (Modified Atmosphere Packaging).

**Flexibility:** The standard version includes the LVA feature with clear or randomly printed material as well as the “no product no bag” feature. The Servo version features the LVA function with clear, randomly printed and print registered material as well as the “no product no bag” function.

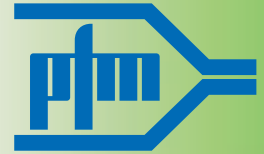
The exclusive ERS (Extended Rotary Sealing) concept allows to package products with a max height of 190mm.

**Speed up to 60 air-tight packs/min.** Thanks to the E.R.S. “Extended Rotary Seal” M.A.P crossways sealing unit (PFM patented), high flexibility can be obtained in the formats of the packageable products. Aesthetically perfect packs: Shamal produces perfect wrinkle-free packs which are properly tensioned and even, thanks to the wrapping material conveyance controlled by an electronic unwinder with a height and width adjustable forming box.



**Easy cleaning:** the construction concept is that of the "cantilevered" type, and can easily be cleaned thus preventing production waste from coming into contact with mechanical and electrical parts.

**High quality components and machining:** the highest performance levels, maintenance reduced to a minimum, and the utmost quality of the material used in production mean a guarantee without limit of time.



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**Closed Packages of pillow pack type, from reels of welding material to flat foil (such as microperforated propylene and polyethylene for foodstuffs).**



# Falcon



## Falcon + ATL (Automatic Trays Loader)

- **Automatic packaging line** for producing flow wraps with three-sided sealing with automatic loader designed for wrapping fruit and vegetables in trays of various shapes and sizes.
- **Cantilevered structure:** the mechanical and electronic components are housed at the back of the wrapping machine and loader in separate, protected environments. The front of the machine therefore remains free for allowing efficient cleaning.
- **Electronic technology:** straightforward and rational; also available with Touch Screen (optional) for guaranteeing high wrapping speeds and maximum operating efficiency.





### Technical Data:

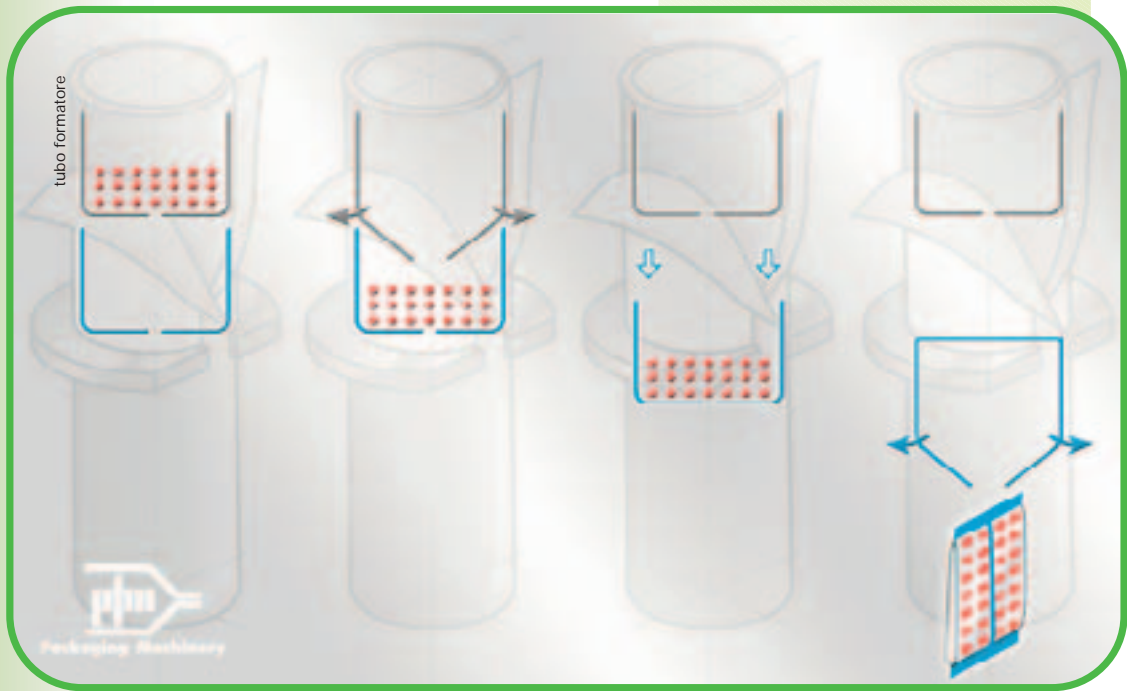
- Forming tunnel with adjustable width and height for rapid size changes.
- 3 pairs of separate, protected and tiltable longitudinal sealing wheels.
- Self-centring reel holding shaft with dancing roller brake and possibility of automatic reel change.
- Bag adjustment by means of a mechanical variation unit or electronic keyboard.
- Rotary transversal sealing unit with differentiated temperature control.
- In-line tray loader with independent cantilevered belts controlled electronically with "self-tightening" and "self-centring" system.



# Zenith Unibag



Zenith Unibag machine, is able to carry out vertical wrapping of the most delicate products, while perfectly preserving their integrity. An exclusive system prevents the product from falling freely into the pack, as has been the case up to now, but carries it along delicately throughout the entire filling and wrapping stages.



UNIBAG is the advanced, extremely convenient flow-wrap packet, having three seals and a square base, which is taken off a reel of just one type of heat-seal wrapping material, such as laminated or bonded polypropylene.

## Main Technical Data:

- 30/40 mechanical cycles per minute
  - Attractive appearance
  - Easy size changing
  - Electronic temperature control
  - Intermittent sealing system
  - Designed to facilitate cleaning and routine maintenance operations;
- This wrapping procedure takes place automatically, with no drops, bruising or shocks, integrally preserving the original appearance and freshness of the most delicate products, in such a way as to optimise their preservation period and quality.



## MBP MULTIHEAD WEIGHERS:

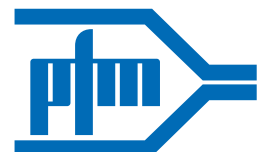
Precise and easy to clean  
A complete range to satisfy every need

- Hygienic
- Simple
- Quiet
- High Performance

# CUT SALAD

## 14-HEAD WEIGHERS

The MBP 14-head weighing machine is available in the pneumatic or mechanical version with IP 65. This weighing machine is designed for the packaging of broad-leaved vegetables (Cut Salad) as well as for the fruit and vegetable market in general. Its main features are easy programming, fast cleaning and weighing accuracy.



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## Technical Data:

	Shamal	Swift	Hurricane	Falcon	Zenith Unibag
Product Length:	min mm 130 max mm LVA	mm 350	mm 350	mm 600	mm 350/400
Product Width:	mm 5-300	mm 220	mm 220-320	mm 320-380	mm 220-320
Product Height:	mm 180	mm 100-140	mm 100-140	mm 120-150	volume lt. 4-8
Reel Width:	mm 700	mm 500	mm 500-700	mm 700-900	mm 500-700
Crimper Width:	-	mm 250	mm 250-350	mm 250/350/400	mm 250
Mechanical Speed:	cycles 70	cycles 100	cycles 100	cycles 200	cycles 40-80
Versions:	Meccanica Servo LVA	Meccanica	Meccanica Elettronica Extra Wide	Meccanica Elettronica Servo/Extra W.	Meccanica Servo Extra Wide
Power Consumption:	Kw 6	Kw 3.5	Kw 3.5	Kw 6.3	Kw 4
Compressed air consumption NL/min.	-	-	-	-	NL/min 0-400
Approx. Weight:	Kg 600	Kg 400	Kg 450	Kg 750	Kg 500

- Wrapping material : laminated polypropylene or micro-perforated Polyethylene.
- The Swift is only available in the mechanical version.
- The Hurricane is available in the following versions : Mechanical, Electronic, Extra Wide (reel width 700 mm, crimper 350 mm).
- The Falcon is available in the following versions : Mechanical, Electronic, Servo, Extra Wide (reel width 900 mm, crimper 400 mm).
- The Zenith is available in the following versions : Pneumatic, Servo, Extra Wide.
- Standard power supply : 380 Volt, three-phase + neutral + earth.
- PFM reserves the right to modify technical data without previous notice.



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