PFM

Packaging Machinery

PFM Vertical World

Vertically from PFM

PFM Packaging Machinery is an Industrial Group that includes 7 Companies with its Headquarters in Italy, PFM S.p.A., flanked by the British subsidiary, **PFM Packaging Machinery LTD**, the Canadian office **PFM Corporation USA & Canada** and the new **PFM Germany**. **BG PACK SPA**, based in Bergamo, is specialised in the manufacture of packaging machines for re-sealable packages while **MBP**, based in Mantua, concentrates on the manufacture of multi-head weighers and vertical packaging machines which complement PFM's range. Last in order of acquisition is **SPS Italiana Pack Systems**, which after thirty years has come back into the hands of its founders. This company, based in Novara, manufactures automatic packaging installations for baked products and biscuits.

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
=ISO 9001/2000=

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The extremely high degree of specialisation of the individual manufacturing units, the Vision 2000 organisation with excellent co-ordination between marketing areas, technical areas and after sales service are the features that set the **PFM Group** apart from the rest.

PFMGroup
Network of Packaging Solutions

pfm
Packaging Machinery

bg pack
packaging machinery

mbp
Weighers Bag Makers
s.r.l.
PFM Group

SPS
italiana pack systems
PFM Group

Auger dosing unit

Ideal for powders and similar fine products. A specific auger (worm screw) for each product, precisely doses the correct amount directly into the forming tube of the packaging machine. The system can easily be dismantled for thorough cleaning.

Volumetric dosing unit

Up to six telescopic cups. Ideal for dosing fine granular products. Can be adjusted manually or automatically, easy to clean thoroughly. A number of options are available depending on specific requirements.

Linear weighers

For medium to large-sized granular products composed of a series of vibratory chutes designed to control the flow of the products towards the weighing cell.
As soon as the programmed weight is reached, the vibratory pans come to an immediate halt and the weighing cell empties its contents into the forming tube. The dedicated operating software compensates for the "in flight" product.

Multi-head weigher

Multiple head, combination weighing systems provide speed, accuracy, reliability and hygiene. Various models available depending on specific requirements. When high production with maximum weighing precision is required.
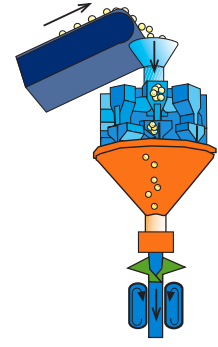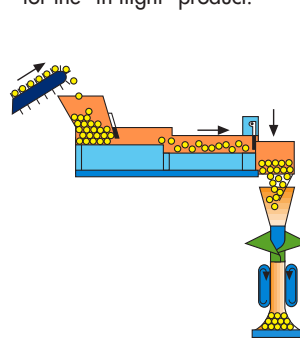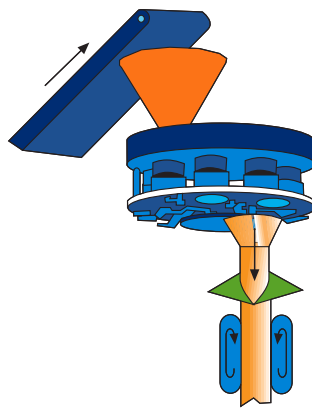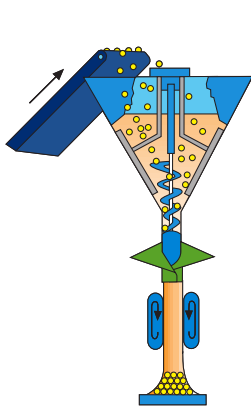
Types of Packages

standard pillow bag

pillow bag
(with euro hole punch)

pillow bag with gusset

pillow bag
with off set vertical
seal

standard pillow bag
(zip cross web
material)

pillow bag
with euro hole punch
(zip cross web material)

block bottom bag

block bottom bag
with off set vertical
seal

block bottom bag with
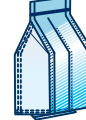four vertical seals
(STEELO PACK)

block bottom bag
with 4 vertical seals
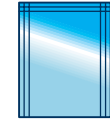
block bottom bag
with cross web
zip

block bottom bag with
off set vertical seal and
cross web zip

block bottom bag
with 4 vertical seals
and cross web zip

block bottom bag with
off-set 4 vertical seals
and cross web zip

3 side seals bag

3 side seals
stand-up bag

3 side seals bag
with zip in line

3 side seals bag
(with euro hole punch
on vertical sealing bar)

3 side seals bag with euro
hole punch on vertical
sealing bar and zip in line

3 side seals bag stand-up
(with euro hole punch on
vertical sealing bar)

3 side seals
stand-up bag
with zip in line

3 side seals stand-up bag with
euro hole punch on vertical
sealing bar and zip in line
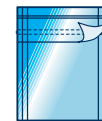
flat bag
(recloseable)

stand-up bag
(recloseable)

flat bag (recloseable)
with euro hole punch
from two films

stand-up bag
(recloseable) with
euro hole punch
from two films

flat bag (recloseable)
with euro hole punch -
from one film (for dry and
heavy products only)

stand-up bag (recloseable)
with euro hole punch - from
one film - (for dry and
heavy products only)

tob pillow bag
(recloseable)

"DOY STYLE"
stand-up bag
(also with zip)

pfm
Packaging Machinery

Zenith

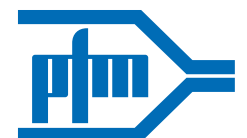**Zenith is the Form Fill Seal machine which produces standard three-seal or square-based packages or Steelo Pack packages with four side seals.**
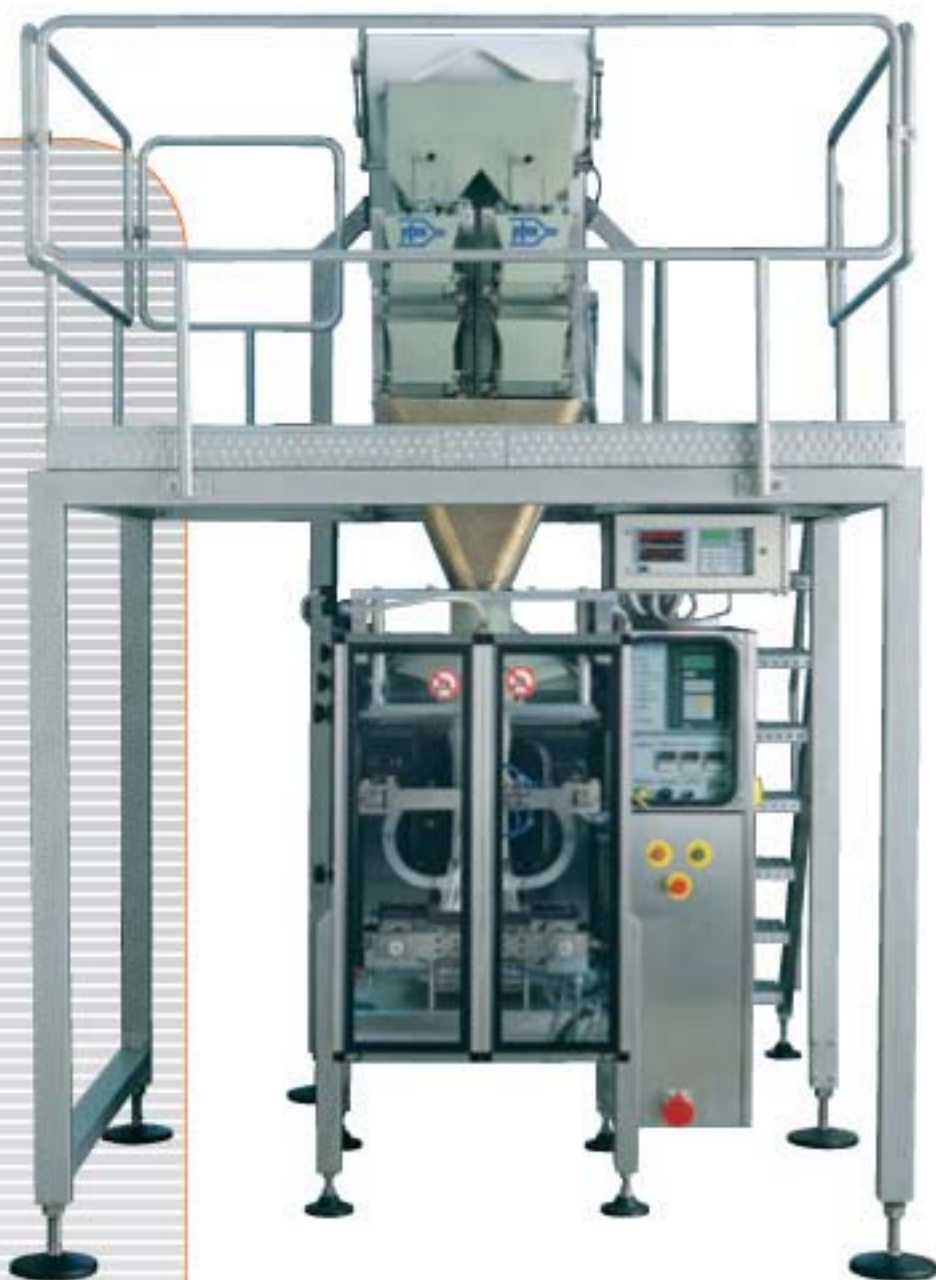
High degree of flexibility: just a few minutes to change the format. Extreme versatility enables a range of different types of packaging to be produced.

High productivity: up to 60 packages/min. with resistant, uniform, well-proportioned seals.

"Ermetic Box" structure: the structure in the form of a case and construction materials used (AISI 304 and anticorodal aluminium) guarantee protection of the mechanical and electronic components from the external environment. Moreover, cleaning operations are simple and quick.

Man-machine interface through an LCD colour touch screen panel. Extremely simple and easy to follow software programming.

Intermittent sealing system using special alloy crimpers.

System for pulling film which uses a highly-adherent motorised roller.

Examples of products.

Technical data >>

Zenith Unibag: packages even the most delicate products vertically, maintaining them in perfect condition.
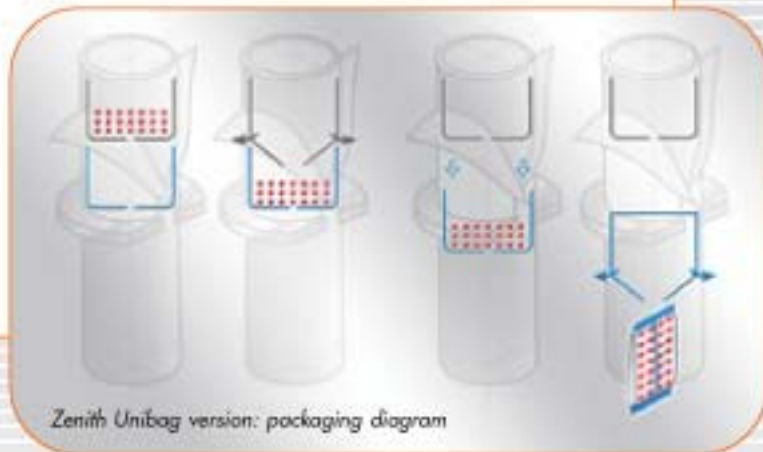
The Unibag system enables the product to be transported delicately throughout the whole filling and packaging sequence.

Technical data:
- 30/40 mechanical cycles a minute
- Aesthetically perfect packages
- Fast, simple format change
- Electronic temperature control
- Intermittent sealing system
- Access for easy cleaning operations and routine maintenance
- Tele-service system

Zenith Unibag version: packaging diagram

Zenith
Unibag version

Azimut series
400/800

The AZIMUT series is synonymous with high quality, flexible packaging machines. Up to 100 cycles/minute and aesthetically perfect packages.

High productivity: available in the pneumatic or Servo version. The latter includes brushless servomotors with motion controller and PLC with interface through a touch screen panel. Up to 100 bags/min. in complete safety and aesthetically perfect packages.

Great operating flexibility: the forming tube is easily interchangeable using the "snap on" system. The reel-holder shaft is self-centring complete with support and pneumatic reel clamping. Size or format changing operations take place in just a few minutes.

Examples of products.
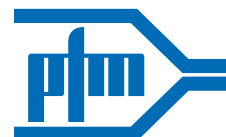
Technical data >>

Easy thorough cleaning: the special "Hermetic Box" type structure enables the mechanical and electronic components to be isolated from the external environment. Access to the interior is easy thanks to the roomy openings provided on both sides. The electric panel is mounted on hinges and can be pivoted to allow total access to the inside of the packaging machine.

Tele-service system using the machine's special integral hardware enables all the parameters and functions of the machine to be controlled remotely.

Comet

The "technological" top of the PFM series of vertical packaging machines.
The result of decades of research and development.

Hermetic Box type structure manufactured in AISI 304 and protected against infiltration.

The new generation Long Dwell rotary sealing system tested at the speed of 200 mechanical cycles a minute. Totally accessible from the front. The Long Dwell rotary system enables 100% hermetic seals to be obtained at high speeds and reduces the possible negative effects of the impact of the product falling against closed sealing jaws, or the seal itself, that can occur on standard intermittent machines.

Machine driven by means of two brushless servo-motors with axis controller.

Expansion type reel-holder shaft with self-centring system.

Balance — Unwinder — Printer — Continuous band sealer — Encoder — Long-Dwell
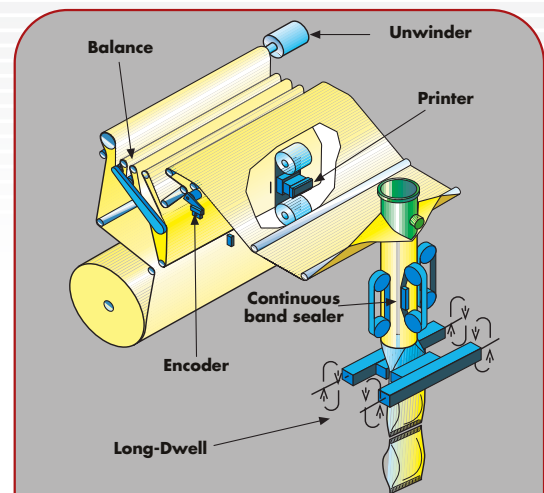
Long Dwell diagram

Examples of products.

Technical data >>
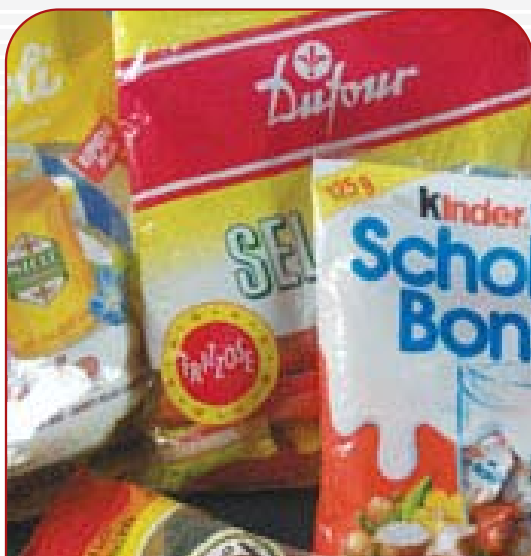
Power feed roll controlled by independent motor.

Extremely compact design for perfect control and synchronisation of feeding/dosing systems.

Continuous film feed by means of self-centring drive belts.

High packaging speed: up to 160 packages a minute depending on the size of the package and film used.

Man machine interface through an LCD colour touch screen. Extremely simple and easy to learn programming software. Help function and self-diagnosis system for alarms. Can be connected remotely for tele-servicing.

Integrated systems
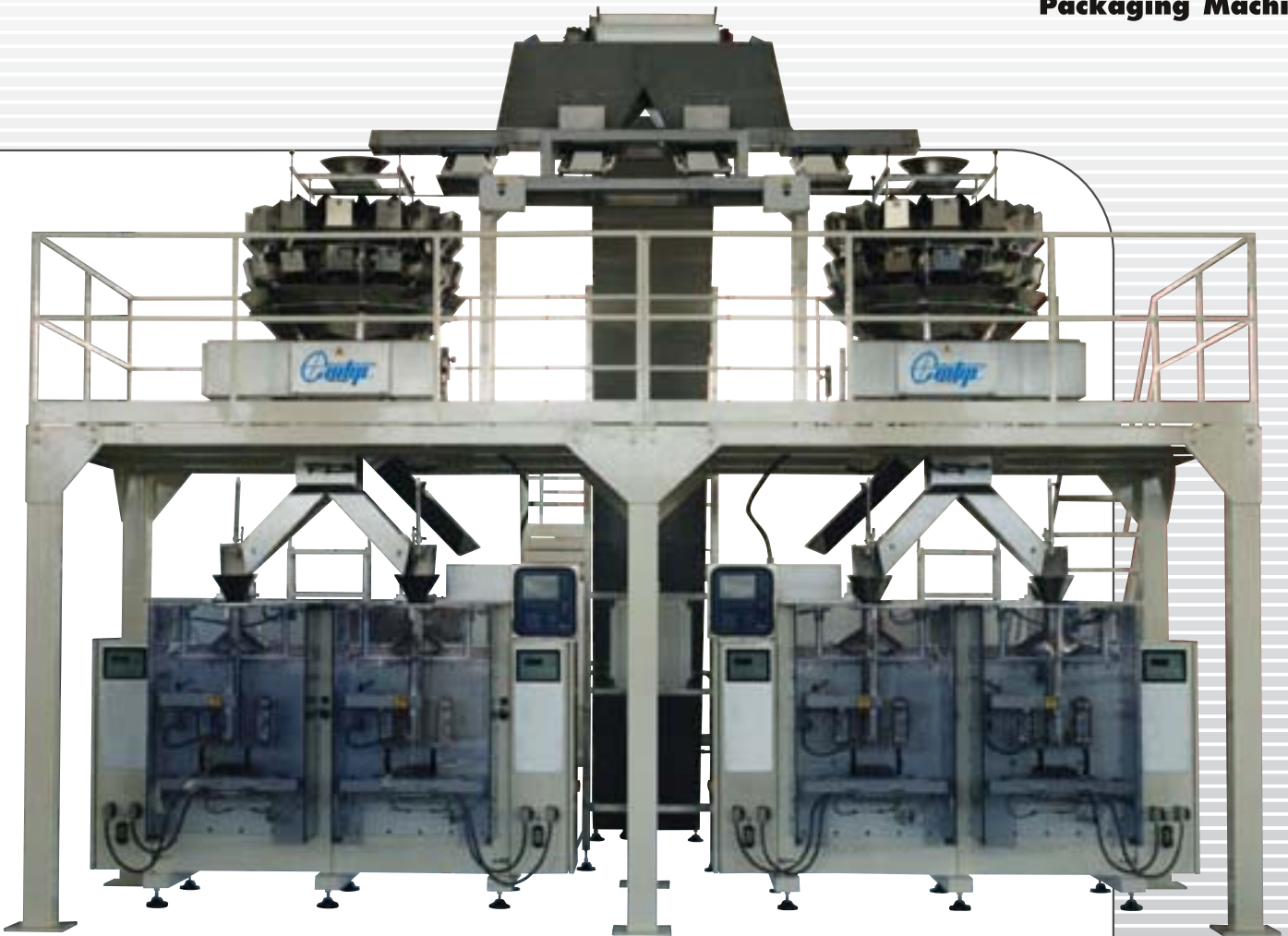
The integrated packaging systems set themselves apart from the rest with their high degree of operating flexibility.

High productivity: an Azimut series machine can reach 100 cycles a minute.

Great working flexibility. It takes just a few seconds to recall a recipe from the memory. Standardized programming. Extremely quick format changeover thanks to the snap-on locking system of the forming tube.

Easy thorough cleaning: the "Hermetic Box" construction structure insulates the mechanical and electrical components from the external environment yet provides easy access.

Tele-service system: all the machine parameters and functions are controlled remotely. The machine operator can be assisted, a diagnosis of the system can be made and any problems identified quickly from a distance.

XM and XP series
8/10/12/14/16/20/24

mbp s.r.l.
Weighers Bag Makers
PFM Group

Example of multihead weigher

MBP MULTI HEAD WEIGHERS:

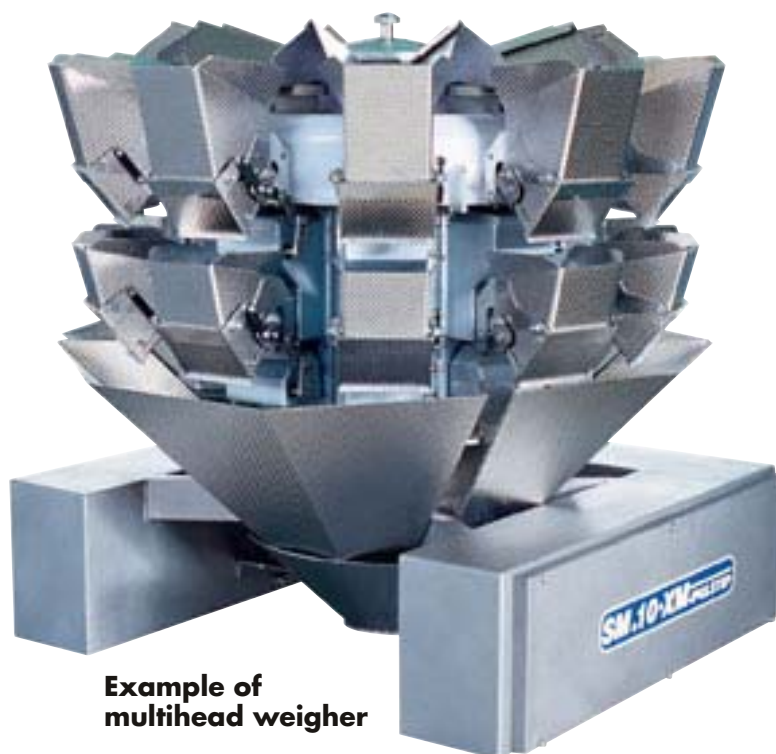**The research, technology and experience gained and perfected over the course of the years have enabled MBP to manufacture a complete range of multi-head weighers, XP pneumatic series and XM series with Step motors, from 8 to 24 heads, the main features of which are: high weighing accuracy, high average productivity, ease of cleaning, protection of hardware components against external environment and ease of programming.**

The XM IP65 series of multi-head weighers is available in models with 10-12-14-20-24 buckets depending on the application.
IP65 structure, can be washed directly with water, manufactured in AISI 304 stainless steel and anticorodal aluminium.
Machine body divided into independent sectors, each of which is easily accessible and interchangeable. Each sector includes all the mechanical moving parts as well as the electronic control parts. The opening of the buckets is carried out with Step motors. Electrical connections are guaranteed by means of pin plugs.
Maximum weighing accuracy thanks to the totally digital control of the signal, the high quality of the hardware and operating software and the ability of the machine structure to "absorb vibrations".
LCD Touch Screen control panel.
Simple and rational programming software.
MBP tele-servicing, the weigher software can be connected to MBP's tele-servicing and therefore diagnostics can be carried out remotely.

Steelo Pack
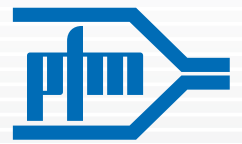
STEELO PACK

This is the package with a square base and four sealed corners. Rigid, beautiful, without any creases, always in shape, it is the ideal package for products that need to increase their value and require marketing tactics.

The novelties of this package are:
• Wide printing area thanks to the side seals.
• Rigid package that "stands up on its own".
• The wide printable surface allows for effective communication and moreover perfect, eye-catching aesthetics of the package.

PFM technology applied to the production of Steelo Pack packages enables extremely rapid format changing times and a production capacity of up to 70 packages/min.
Steelo Pack is produced using the models in the Azimut and Zenith series. If required, the Steelo Pack function can be removed and conventional packages can be produced.

STEELOpack
STAND-UP BAG by PFM

Examples of products.

	Pack lenght mm	Pack width mm	Reel width mm	Reel diameter mm	Packaging material	Output cycles/min	Sealing system	Weight Kg	Power supply Volt	Electrical consumption Kw/h	Operation mode
Zenith (*)	min 80 max 400	min 100 max 220	500	350	BOPP laminated or bonded, also with gas barrier	up to 60	Intermittent	500	380	4	Pneum.
Azimut 400	min 80 max 400	min 100 max 300	630	350	BOPP laminated or bonded, also with gas barrier	up to 100	Intermittent	550	380	4,5	Pneum. Servo
Azimut 800	min 200 max 800	min 200 max 480	1100	350	BOPP laminated or bonded, also with gas barrier	up to 50	Intermittent	800	380	4	Pneum. Servo
Comet	min 100 max 400	max 200	400	350	BOPP laminated or bonded, also with gas barrier	up to 180	Long Dwell	600	380	4	Servo

(*) ZENITH EW has the same technical specification as Zenith but with: pack lenght 400 mm, pack width 320 mm, reel width up to 700 mm.

STANDARD TECHNICAL TABLE OF BASIC MACHINES

The technical specifications stated are merely indicative and may vary according to the type and dimensions of the product, output required and type of wrapping material used. Data should always be confirmed by PFM's technical department.
The final technical specifications calculated according to the above mentioned variables are only given in the official offer.
PFM reserves the right to make modifications without prior notice.

Packaging Machinery

www.areaimmagine.net

PFMGroup
Network of Packaging Solutions

www.pfm.it

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