

Packaging Machinery



Shamal

Shamal



Examples of products

SHAMAL is a horizontal flow pack type packaging machine with electronic bottom reel that produces closed packs with three seals originating from a flat foil heat-sealing wrapping material reel. Shamal has also been designed for M.A.P. (Modified Atmosphere Packaging).

The main characteristics that make Shamal the focal point worldwide in the field of packaging, can be summed up in the following: air-tight sealing system, aesthetically pleasant packs, guaranteed hygiene, high flexibility and great productive capacity.

High flexibility: The SERVO version of the Shamal packaging machine, features the LVA option (automatic adjustment of packaging length according to product length) with fixed pitch and centred printing in case of products with constant length and film with centred print. Furthermore, Shamal makes it possible to package products with a height of up to 200 mm and width up to 360 mm thanks to the E.R.S. sealing system (patented by PFM).

Aesthetically perfect packs: thanks to the adjustable forming box and the longitudinal sealing system made up of 3 sets of inclinable wheels for adjusting the wrapping tension around the products and to the E.R.S. crosswise sealing system with parallel closing and separate motorisation, Shamal produces perfect wrinkle-free packs, which are properly tensioned and proportioned with respect to the product so as to originate parallel and tight seals.

Guaranteed Hygiene: a special frame made of AISI 304 stainless steel along with the "cantilevered" type construction concept where the mechanical and electrical components are housed at the rear of the machine in separate and protected areas, while the sealing units and conveyor surfaces are housed at the front with the quick-release belt, permit fast and easy cleaning of the machine.

High wrapping speed: up to 70 packs/min in full safety, air-tight seals, aesthetically perfect packs, optimised gas recycling inside the film tube (MAP optional).



Main standard accessories:

The machine is equipped with the following devices:

- 2 m long infeed conveyor covered with anti-sliding belt and with a metallic joint.
Fast assembly/disassembly and cleaning.
- Longitudinal sealing unit with adjustable height.
- Sealing system made up of 3 individual wheel units, which are separate, protected and inclinable lengthwise. The first unit draws the material, the second unit carries out the sealing and the third unit the rim folding.
- E.R.S. crossways sealing unit.
- Automatic centring reel holding unit shafts with an electronically controlled multiple belt unwinder.
- Adjustable forming box.
- Individual sealing crimper and sealing wheel temperature controls.



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

PFM S.p.A. (headquarters)
via Pasubio, 49
36036 Torrelvicino (VI) Italy

Shamo



Servo Model

- A new PFM User Friendly and intuitive programming system, which uses a touch screen panel for easily setting the machine functions with up to 20 different programmes.
- The format change is effected automatically, in particular with regards to:
 - Pack length setting
 - Slow-down setting
 - Product phasing
 - Print centring setting
 - Printing position setting of the printer

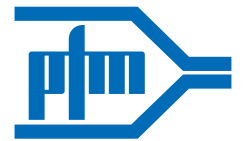


Long Dwell sealing system: Long Dwell E.R.S.

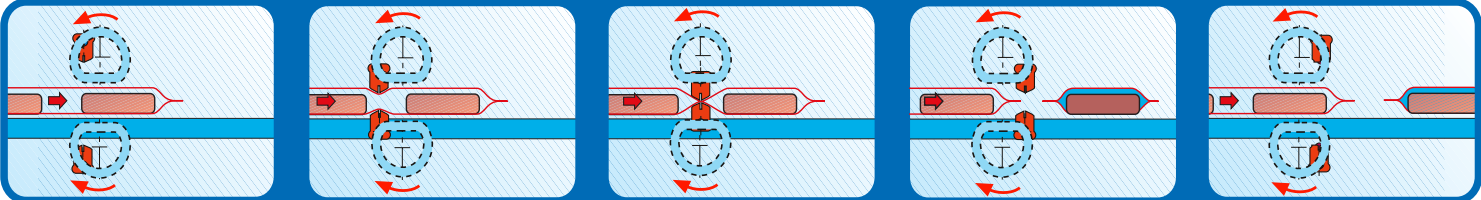
Temperature, Pressure and Time are the three principle factors that when optimized, using appropriate wrapping material, enables high / Hermetic sealing to be achieved.

The PFM E.R.S. sealing systems with temperatures equal to those of traditional rotary systems maximize pressure and lengthen sealing times. They have a rotating, mechanical, and constant motion which is particularly fluid in rectilinear sections and an automatically ejecting cutting knife.

The longitudinal and crossways sealing units guarantee completely hermetic sealing, while a close study of the distances between the sealing units, the operational kinematics and the speed at which the products are moved, assure an excellent replacement of the modified atmosphere of sealed film inside the box, as well as an accurate control of residue oxygen.



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PFM patented Long Dwell sealing system: 1 jaw per shaft, high operation flexibility with a maximum speed of 80 cycles/min.

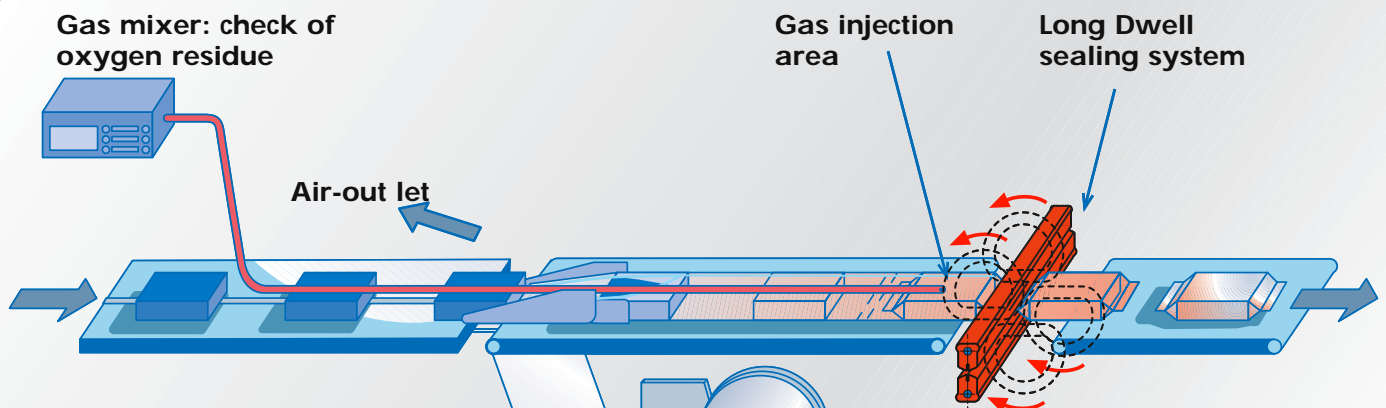


Diagram of productive cycle performed by Shamal with modified atmosphere



Shamal

Technical Data:

Product length:	min 150 mm, max LVA
Product width:	min 10 mm, max 350 mm
Product height:	max 200 mm
Selaing jaw width:	400 mm
Reel strip:	max 700 mm
Reel diameter:	350 mm
Internal reel diameter:	70 mm
Wrapping material:	BOPP laminated or bonded also with gas barrier
Output:	Up to 70 mechanicals cycles per minute
Sealing method:	ERS
Construction:	Painted steel or AISI 304
Structure:	Cleanable cantilevered type
Electrical consumption:	7 Kw
Weight:	1.000 Kg
Power supply:	380 volt three-phase + N + E

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.

PFM Group

Network of Packaging Solutions



PFM S.p.A.
PACKAGING MACHINERY

ITALIAN HEADQUARTERS
Via Pasubio, 49
36036 TORREBELVICINO
(VI) ITALY

Ph: (+39) 0445. 570.110
Fax: (+39) 0445. 570.175

www.pfm.it
pfm@pfm.it



PFM
PACKAGING MACHINERY LTD

PFM House, 2
Pilgrim Way, Stanningley
LEEDS - LS28 6LU
UNITED KINGDOM

Ph: +44 (0) 113. 23.93.401
Fax: +44 (0) 113.23.93.402

www.pfmuk.com
pfm@pfm-ltd.co.uk



PFM
PACKAGING MACHINERY
CORP. USA & CANADA

1271, Ringwell Ave.
NEWMARKET
ONTARIO CANADA L3Y
7V1.

Ph: (+1) 905. 836.6709
Fax: (+1) 905. 836.7763

www.pfmusa.com
info@pfmusa.com



PFM
PACKAGING MACHINERY
GERMANY

Gewerbestraße, 31
D-21279 HOLLENSTED

Ph: (+49) 4165. 221.9
Fax: (+49) 4165. 221.9

www.pfmgermany.de
info@pfm-bgpack.de



EMRICH INDUSTRIES
PACKAGING MACHINERY
AUSTRALASIA

FREECALL: 1800-801243
Ph: (+39) 035. 20.31.22
Fax: (+39) 035. 20.31.25

www.emrich.com.au
sales@emrich.com.au



BG PACK S.p.A.

Via C. A. Dalla Chiesa, 13
24048 TREVIOLO (BG)
ITALY

Ph: (+39) 035. 20.31.22
Fax: (+39) 035. 20.31.25

bgpack@bgpack.it



MBP S.r.l.
WEIGHERS AND BAG
MAKERS

PFM PACKAGING GROUP
Via Toscanini, 48/B
46043 CASTIGLIONE
DELLE STIVIERE (MN)
ITALY

Ph: (+39) 0376. 638.479
Fax: (+39) 0376. 670.727

www.mbp.it
info@mbp.it



SPS S.p.A.
ITALIANA PACK SYSTEMS
PFM PACKAGING GROUP

Via Salvemini, 23
28012 CRESSA (NO)
ITALY

Ph: (+39) 0322. 861.100
Fax: (+39) 0322. 861.122

www.spsspack.com
info@spsspack.com