

SIMPLE AC

VALVE BAG BAGGING MACHINES FOR FINE
AND MIXED POWDERS AND CHIPS



 **PAGLIERANI**

mechatronics at its best

Paglierani World

Paglierani offers you
10 fundamental
benefits
for strengthening
your business.



SINGLE PARTNER

From a single machine to a complete line, from a simple standard system to a custom solution, Paglierani is your single partner to **reduce costs and risks** in the realisation of a high-performance plant.

99.9% RELIABILITY

Standard machines industrially constructed, almost a century of know-how in the weighing and bagging field are your guarantees of **high-performance and reliable machines**, perfectly **coordinated** with **the upstream and downstream machinery**.



3

EVEN IN AGGRESSIVE ENVIRONMENTS

For use in aggressive environments, the machines are treated with **anti-corrosion painting** cycles and the parts in contact with the product are in **stainless steel**, nuts and bolts included.



4

SAFETY AND REGULATORY COMPLIANCE

Perimeter protection and light curtains guarantee the most complete **extrinsic safety** while **intrinsic safety** is ensured by the machine's construction type.



5

ITALIAN MADE

All Paglierani products are **designed, produced and assembled in Italy**, in our plants. With an all-Italian know-how to guarantee the highest quality level.



6

REFERENCES ALL OVER THE WORLD

Our installations have been improving our customers' business **since 1926**. Almost a century of experience in the field and hundreds of **references across the globe**.



7

PRE-SHIPMENT TESTING

Prior to shipment, all machines are **pre-assembled, connected and tested**. Thus ensuring their proper functioning and high performance. During this procedure, **the customer may attend all tests**.



8

USER-FRIENDLY & SMART

Machines and complete lines that are **easy to use, quick to clean and simple to maintain**. Constantly monitored remotely with the **on-line service**.



9

TECHNOLOGY AND SUSTAINABILITY

Our machines are designed to guarantee **optimal use of energy** and deliver the highest performance with **minimal consumption**.



10

ORIGINAL SPARE PARTS. ANYTIME AND ANYWHERE

The high and constant availability of original spare parts, **guaranteed for machines' entire lifecycle**, makes Paglierani a totally reliable partner, with **fast deliveries anywhere in the world**. And your business is guaranteed to never stop.

SIMPLE AC - Bagging machines for preformed valve bags, suitable for fine and mixed powders and chips.

VALVE SIZES

STANDARD

The SIMPLE AC model can be equipped with bagging spouts suitable for valves in the standard sizes 110 mm · 130 mm · 150 mm · 180 mm (with the same valve size).

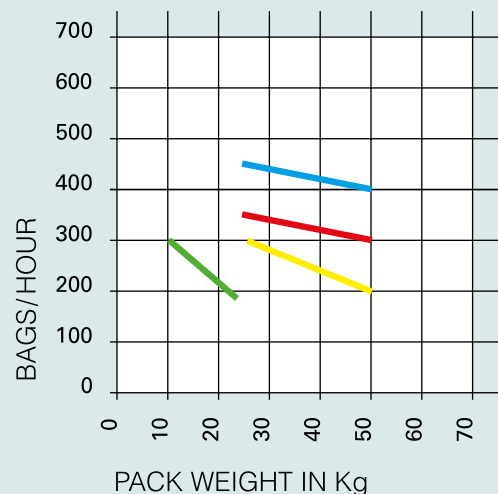
SPECIAL

Spouts for special valve sizes (other than those listed above) are also available on request.

HOURLY PRODUCTION RATES

The production rate depends on valve size, product type and bag weight. The graph illustrates the relationships between these parameters.

SIMPLE AC SPECIFIC WEIGHT 0,5 kg/litre



VALVE SPOUT

110 130 150 180

SYSTEM ENGINEERING

In line with the PAGLIERANI philosophy which aims to design integrated systems for higher production efficiency, SIMPLE AC bagging machines can be combined with model NE net weight weighing units.

One or more bagging machines can be installed in-line depending on production requirements (**diagram A**).

The system is automated through combination with the model FB automatic empty bag feeder (**diagram B**).

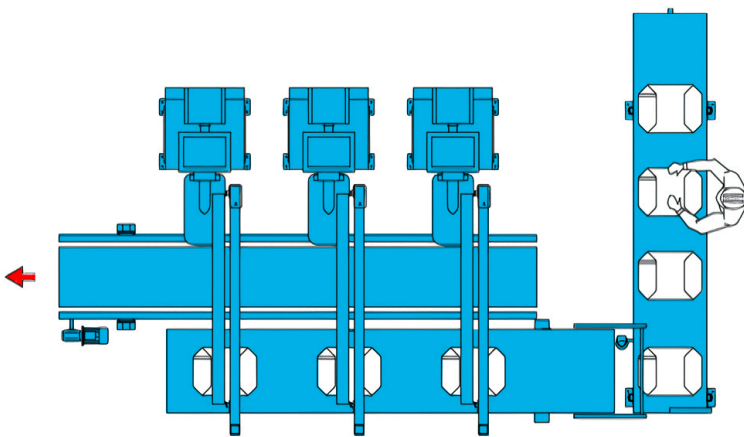


Diagram A

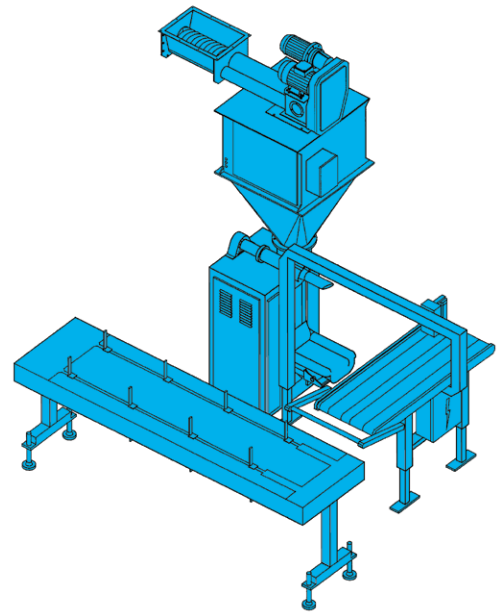
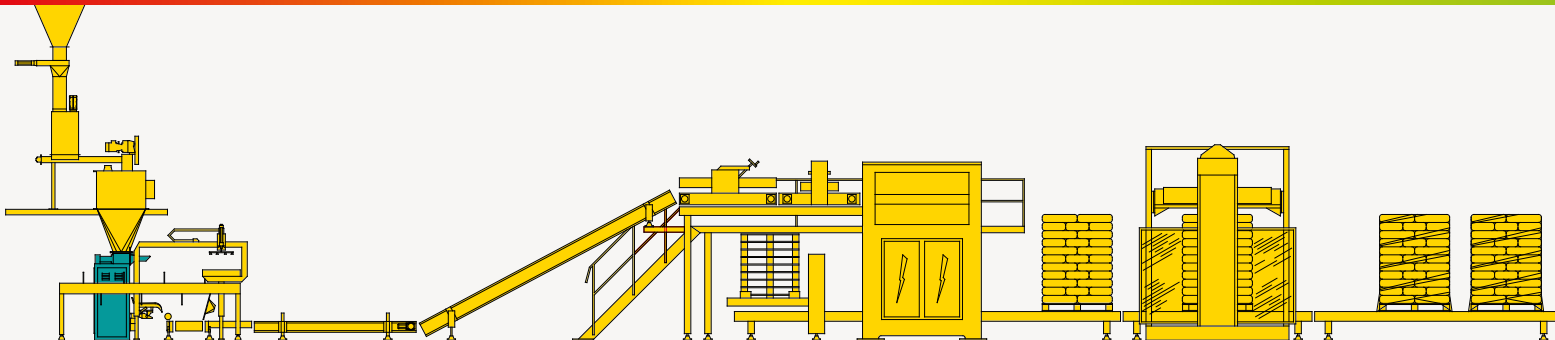


Diagram B

PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.

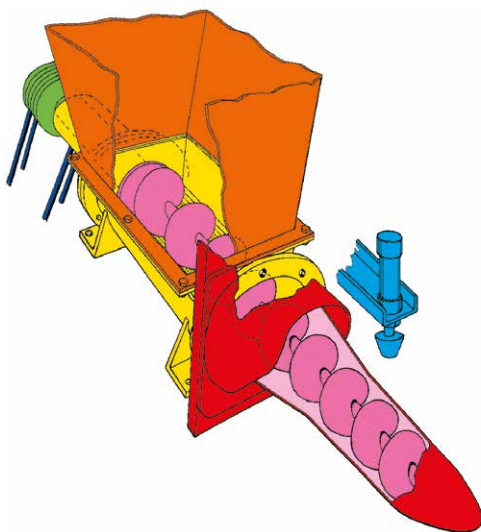


SIMPLE AC

THE BAGGING MACHINE FOR MEDIUM PRODUCTION RATES



ANIMATION



Particularly suitable for processing **powder or chip products**, for **medium production rates**, the SIMPLE AC bagging machine maintains rugged construction and minimal maintenance requirements.

Bags are filled by a horizontal auger. A **vibrating cradle** supports the bag during filling, compacting the product to reduce the pack size.

If required, full bags can be ejected automatically by automatic swivelling of the bag cradle.

The modular construction principles mean that two or more bagging machines can be combined in line to achieve high production rates (up to 1,200 bags per hour), while total automation is possible with application of the automatic empty bag feeder (FB model) **or application of the ultrasound valve sealing system.**

MAIN CHARACTERISTICS.

BAG VIBRATION with stroke variable from 1 to 8 mm, generated by a special eccentric mass.

MINIMISATION OF DUST DEPOSIT ZONES in accordance with the strictest health standards.

BEARINGS PROTECTED by a dustproofing device incorporating compressed air pressurisation circuit.

DUST EXTRACTION CONNECTION.

ADJUSTABLE-HEIGHT BAG CRADLE designed to enable filling of bags of variable size.



TECHNICAL DETAILS

DUST EXTRACTION SHIELD.

There is a dust extraction inlet mounted on the bagging spout, to collect the dust generated during filling operations.



BAGGING CYCLE AUTOMATIC START DEVICE.

- The bagging cycle is activated automatically as soon as the bag is fitted on the spout.
- Bag presence sensor device (for connection to automatic empty bag feeder).
- The sensor disables filling if the bag is not fitted on the bagging spout correctly.

ADJUSTABLE VIBRATION DEVICE.

The bag support cradle is vibrated by an eccentric mass. The vibration stroke can be adjusted to achieve the best results on the basis of the product for bagging.



AUTOMATIC CRADLE POSITION ADJUSTMENT (SIZE CHANGE).

CRADLE WITH TWO POSITION SETTINGS (PNEUMATIC).

If the system only processes two bags of different heights, cradle height adjustment can be automatic, powered by a pneumatic piston.



CRADLE WITH MULTIPLE POSITION SETTINGS (HYDRAULIC).

If the system processes multiple bags (of different heights), the bag cradle can be equipped with a hydraulic cylinder for precise positioning at the height required (automatic cradle position change for the program selected).



OPTIONAL

TOP IN FRONT TURNING

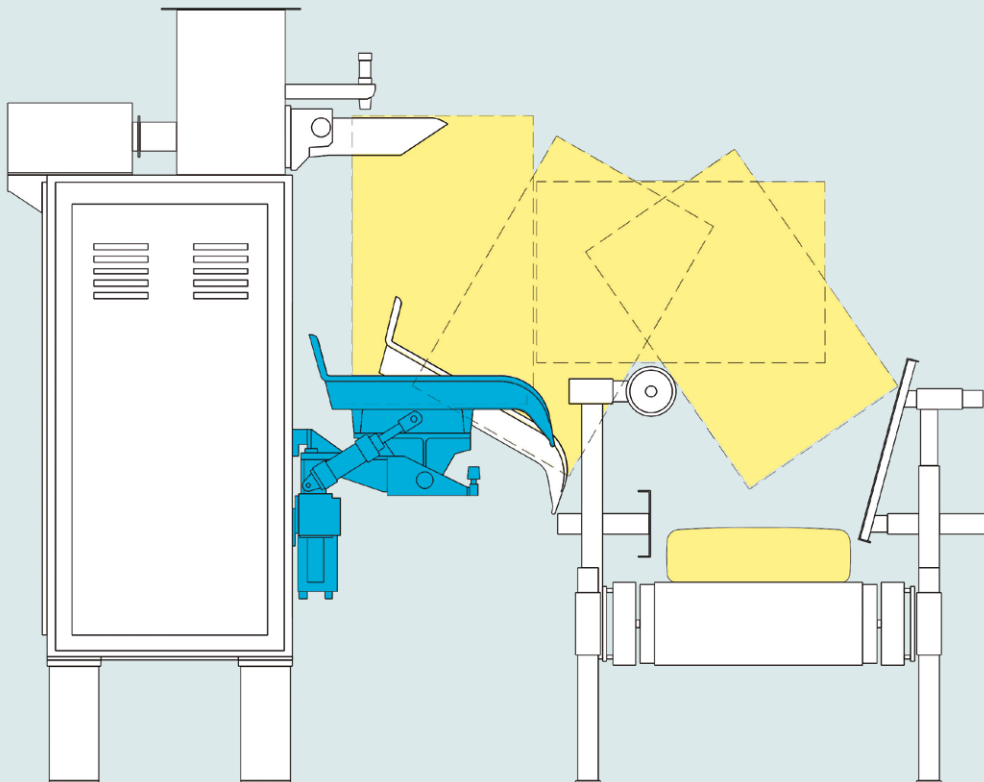
Applied in case of manual bag feeding (maximum two bagging machines) or with automatic feeder.

In this case the turning device is completed with a pneumatic system which raises and lowers the cradle to enable:

- correct insertion of the empty bag inside the cradle;
- perfect opening of the bag bottom.



VIDEO



The empty bag is put in place (cradle in low position).



The filling cycle is activated; the bag is suspended so that the weight of the product opens its bottom.

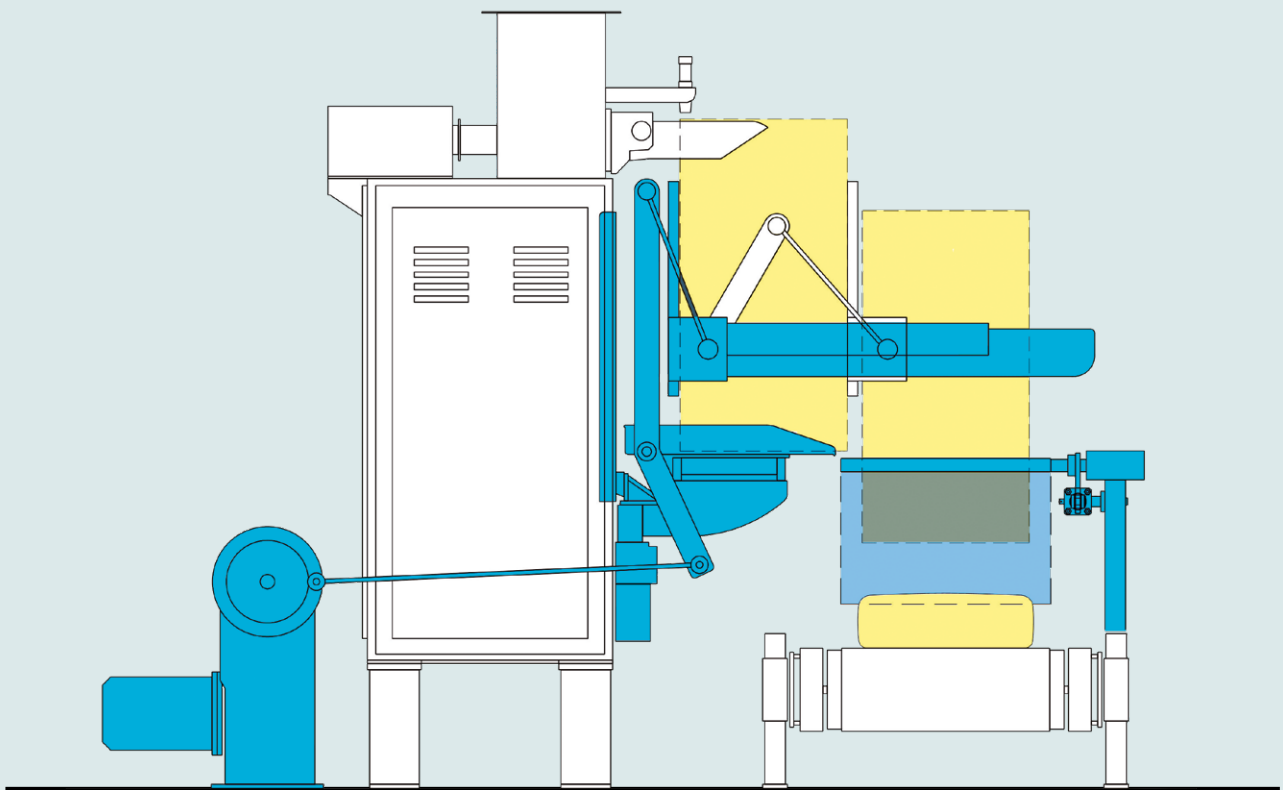


The cradle rises to support the product and start the vibration.

OPTIONAL

BOTTOM-IN-FRONT TURNING

Applied in arrangements with three or more bagging machines in line, with manual empty bag feeding.



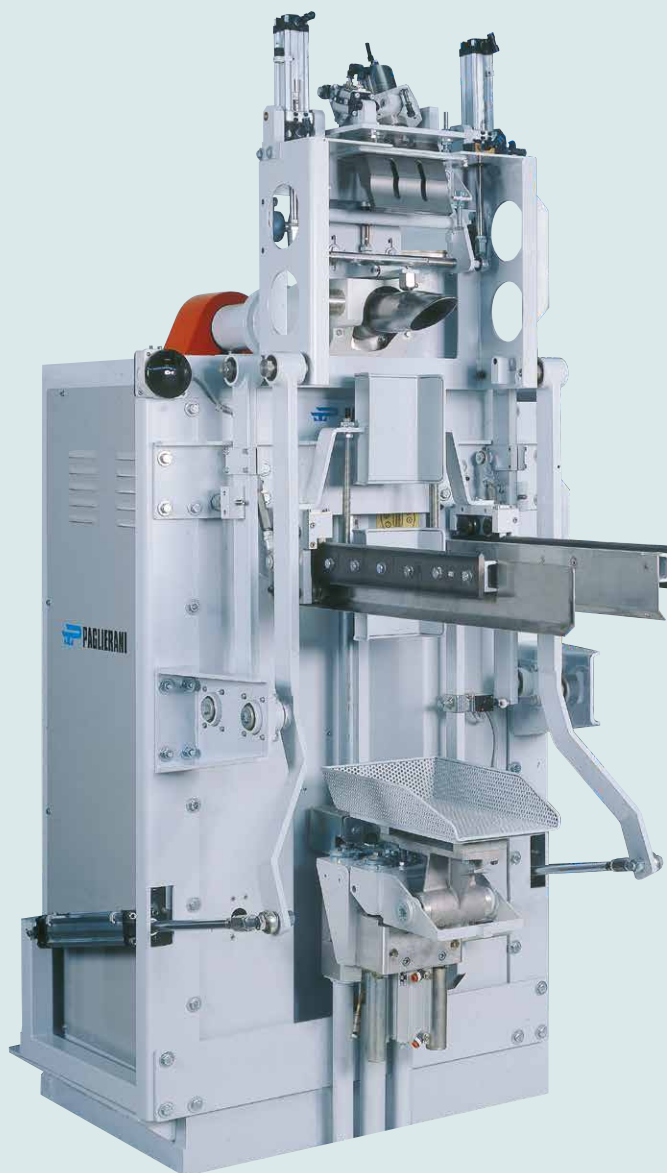
OPTIONAL

ULTRASOUND SEALING

SIMPLE AC bagging machines can be equipped with a bag valve sealing system (A) comprising an ultrasound sealer.

This fully automatic system is installed on the bagging machine and incorporates:

- the ultrasound sealing hammer (sonotrode) (B);
- the anvil (against which the sealing hammer acts);
- the electronic control unit for setting the ultrasound power and duration;
- the pusher for extracting the full bag and placing it in the sealing/removal zone.



Ultrasound sealer on SIMPLE AC bagging machine.

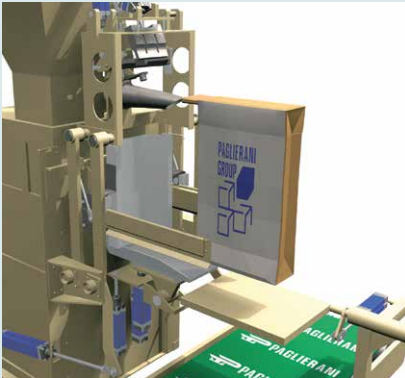
OPTIONAL

ULTRASOUND SEALING

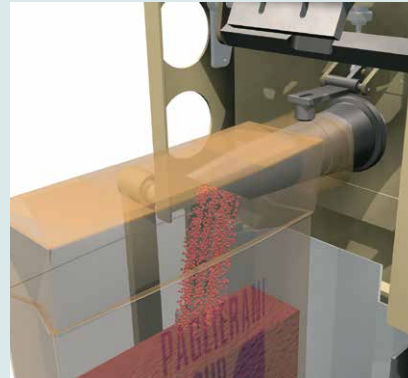


ON-BOARD VERSION OPERATING PRINCIPLE

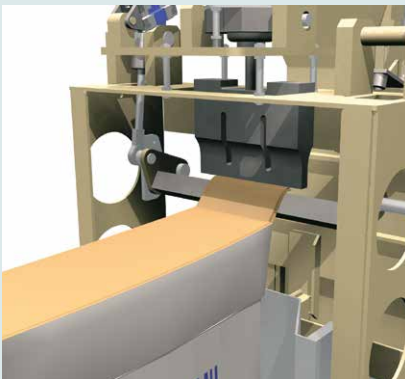
ANIMATION



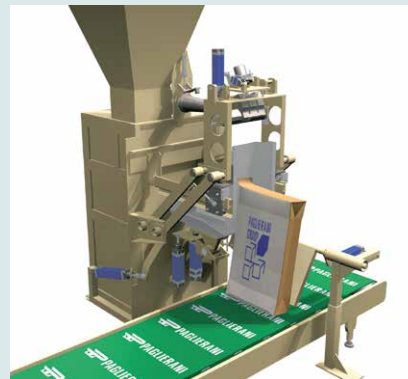
Empty bag
ready for
insertion.



Bag filling
(pusher and
sealer at rest).



Bag expulsion
and sealing.



Sealed bag
removal.



IN-LINE VERSION

VIDEO

The filled bags are removed to be conveyed, via a bag presser, to the model G853 in-line ultrasound sealer.





PAGLIERANI

**WEIGHING, PACKING FILLING, PALLETISING &
STRETCH WRAPPING SYSTEMS.**

PAGLIERANI s.r.l. · via Santarcangiolo, 5 · 47824 Poggio Torriana RN · Italy · tel. +39. 0541. 31 11 11 · fax +39. 0541. 67 54 60
info@paglierani.com · www.paglierani.com