

FLU 83

VALVE BAG WEIGHING-BAGGING MACHINES
FOR COARSE AND ABRASIVE POWDERS



 **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



8



9



10

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**.

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**.

TECHNOLOGY AND SUSTAINABILITY

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

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.

FLU 83 Series weighing-bagging machines for preformed valve bags, suitable for coarse and abrasive powders.

FLU 83

ABRASIVE POWDERS AND THOSE WITH MIXED PARTICLE SIZE (CONCRETE PREMIXES, GROUND REFRACTORIES, NON FREE-FLOWING CHEMICALS).

VALVE SIZES

STANDARD

The FLU 83 Series can be equipped with bagging spouts suitable for valves in the standard sizes 90 mm · 110 mm · 130 mm · 150 mm.

SPECIAL

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

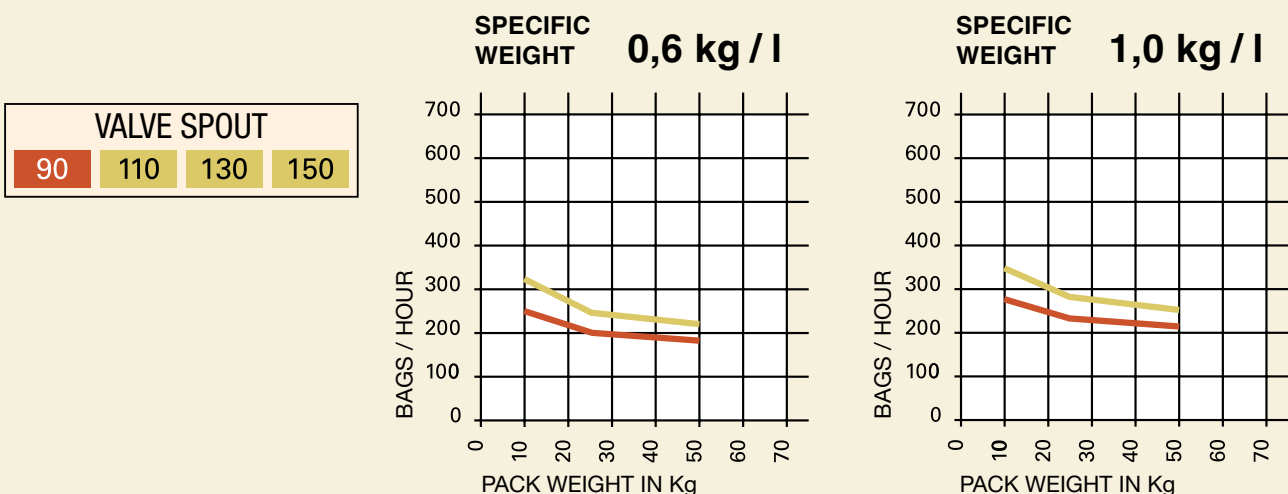
SIZE CHANGE

The same bagging machine can be equipped to fill bags of different sizes.

In this case, tooling the machine takes an estimated “size changeover time” of about 30 minutes (in semi-automatic version)

HOURLY PRODUCTION RATES

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



SYSTEM ENGINEERING

FLU 83 weighing-bagging machines can be configured individually or in multiple installations (up to 4) in line (see fig. A + B). The system is automated through combination with the model FB automatic empty bag feeder (see fig. C).

Fig. A

Configuration with three bagging machines in line.



Fig. B

Configuration with four machines in line.



Fig. C

Combination of bagging machine with empty bag feeder.

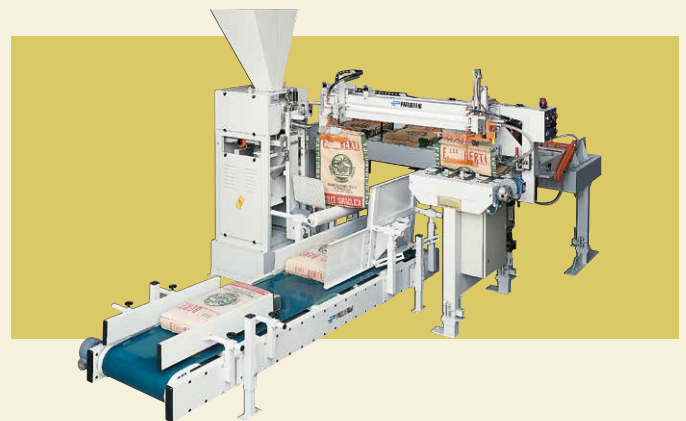


Fig. D

Combination of bagging machine with empty bag feeder, robotised palletiser and hooding machine.



FLU 83

ELECTRO-PNEUMATIC WEIGHING-BAGGING MACHINE.

The distinctive feature of the model FLU 83 weighing-bagging machine is its ability to handle coarse and abrasive powders. Flexible and universal, it has a field of use extending from the food to the chemical and mining industries. Its modularity allows combined configurations of 2, 3 or 4 bagging machines in line with an electronic weighing system (with load cells).

LOW-PRESSURE BAGGING SYSTEM.

The product is handled at low pressure and fed into the pressurisation chamber, which propels it into the bag.

The bagging system comprises:

- A butterfly valve, installed at the intake point, to control the feeding of product.
- A pressurisation valve (cone valve).
- A pressure chamber complete with fluidizer plates. The pressure chamber has a "reverse angle" shape to facilitate the fall of product. All angles are rounded to minimise build-ups of product.
- A stirrer (optional) for handling products with particularly poor flow.
- A series of pneumatic valves to control the weighing phases (full flow and finishing flow) and stop the passage of product at once when the weight is reached.



VIDEO

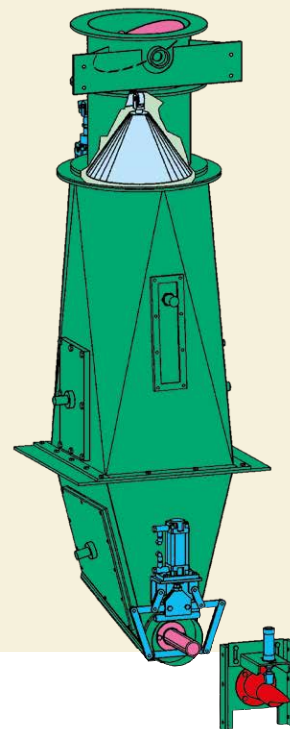
MAIN CHARACTERISTICS.

MINIMAL OVERALL SIZE.

DUST EXTRACTION PORT.

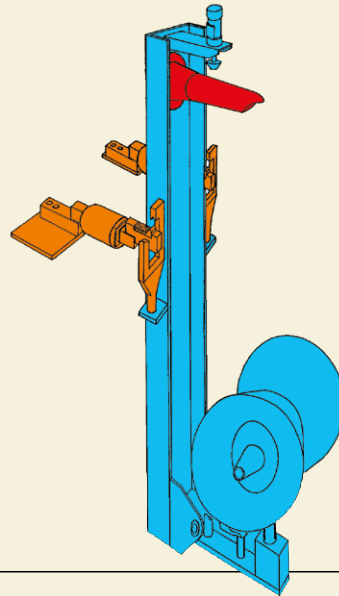
ADJUSTABLE-HEIGHT BAG CRADLE DESIGNED TO ENABLE FILLING OF BAGS OF VARIABLE SIZE.

NO MOVING PARTS AS BAGGING IS PERFORMED BY AN ELECTRONIC SYSTEM.



ELECTRONIC WEIGHING

Electronic weighing eliminates moving parts, meaning there will be no wear. The electronic weighing system is our model PA-1921, which provides instantaneous reading of the actual weigh and control of the tare. It is type-approved by the notified bodies in accordance with the European MI-006 Directives for automatic weighing instruments.



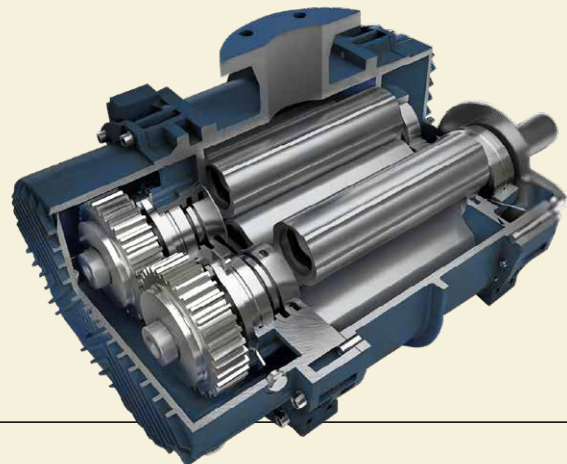
PA-1921 ELECTRONIC CONTROL UNIT

The model PA-1921 electronic control unit, connected to the weighing system, provides pre-setting of the weighing phases and the final weight value. The current weight is displayed immediately.



MOTOR-COMPRESSOR UNIT

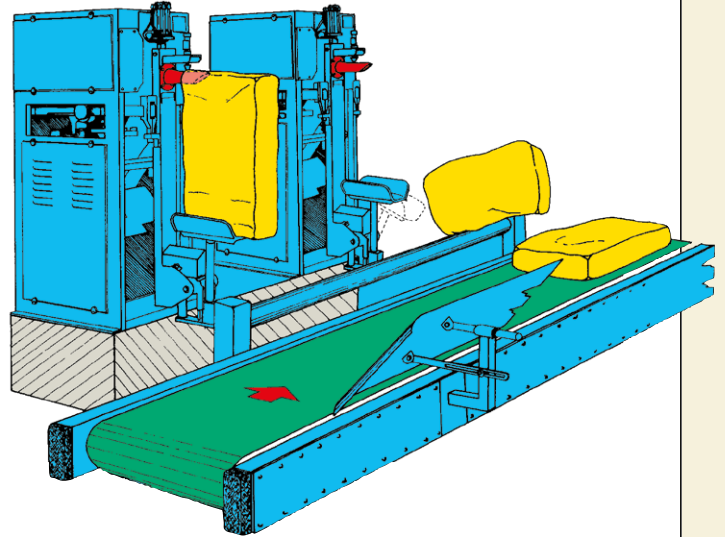
The chamber is pressurised by a rotary-lobe compressor able to deliver high volumes at low pressure.



OPTIONALS

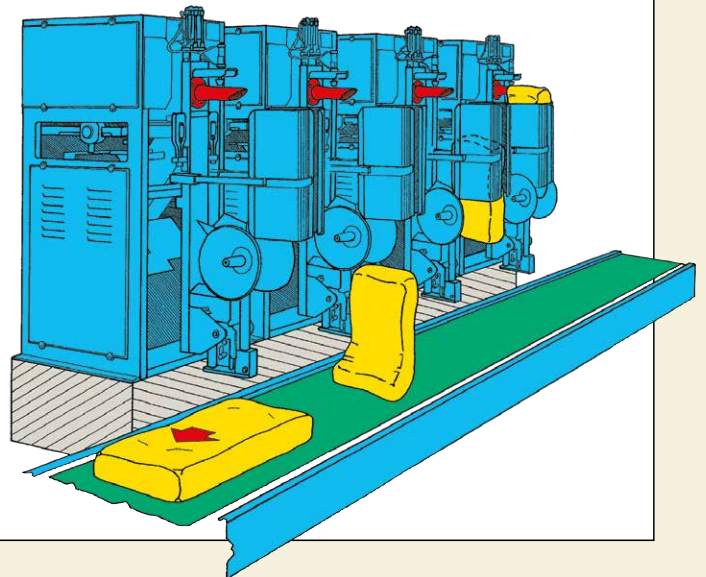
“FLIP-OVER” FULL BAG EJECTION

Full bags are removed via “flip-over” ejection. For greater production efficiency, once it is full the bag can be removed via optional installation of the device which pneumatically swings the bag cradle. The bag is ejected onto the removal conveyor belt coaxial with the main belt. This application is recommended in the following configurations:
Single, Double with operator seated in central position, or Triple or Quadruple when combined with automatic empty bag feeder.



“VERTICAL” FULL BAG EJECTION

Full bags are removed via “vertical” ejection. In this variant, the bag filler is equipped with “shell plates” which guide the bag during ejection. The bag is removed bottom-forward, coaxial with the conveyor. This application is recommended in the both single and multiple configurations with manual empty bag feeding.



BAG VALVE SEALING

BAG VALVE SEALING WITH ULTRASOUND SEALER



ON-BOARD VERSION

Before the full bag is ejected, the bag valve is sealed by an ultrasound sealer which ensures excellent performance even in dusty conditions. With this application, the bagging machine's throughput rate is reduced by about 20%.



ANIMATION



ANIMATION



IN-LINE VERSION

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



VIDEO



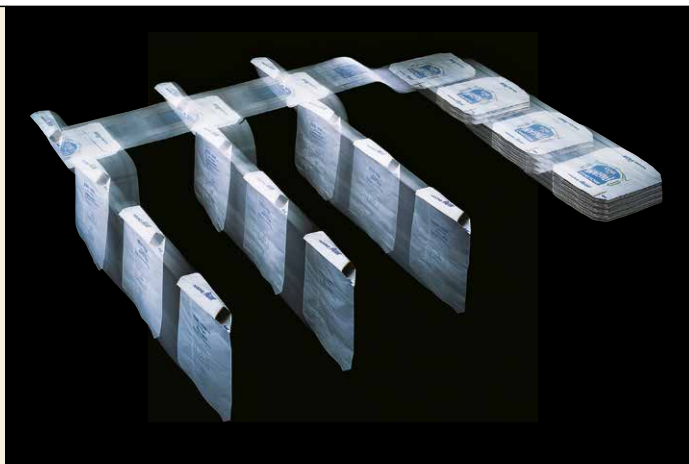
OPTIONALS

AUTOMATIC EMPTY BAG FEEDING

Combination with the model FB automatic feeder automates the bagging machine: the operator has only to oversee the system and keep the empty bag magazine supplied.



VIDEO



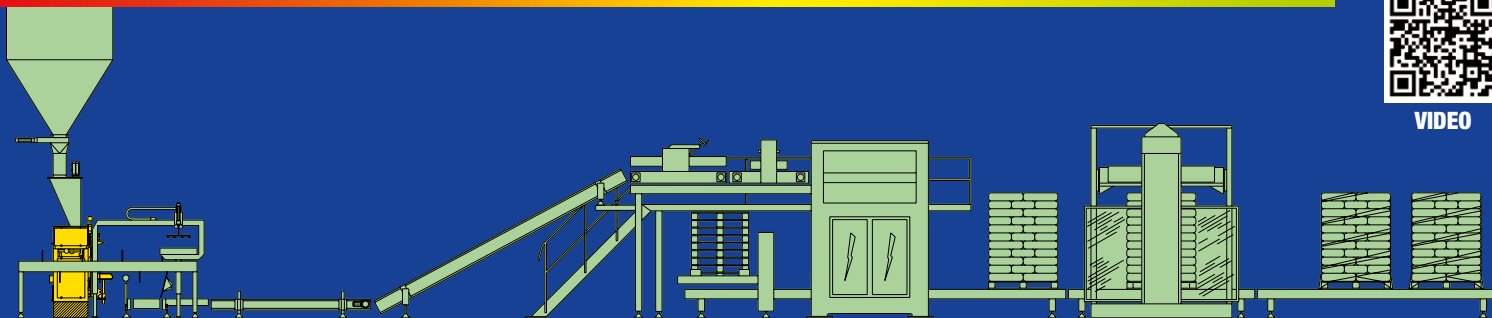
INFLATABLE SPOUT TO REDUCE DUST EMISSIONS

Grazie a questa applicazione si riducono notevolmente le emissioni di polveri durante la fase di riempimento del sacco.

Per questa applicazione il sacco dovrà essere microforato ed il sacco dovrà altresì essere equipaggiato di una valvola (a manicotto esterno saldabile).



PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.



VIDEO



PAGLIERANI

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

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