

TP 21

**VALVE BAG WEIGHING-BAGGING MACHINES
FOR FINE 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**.



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.

TP 21 Series weighing-bagging machines for preformed valve bags, suitable for fine powders.

TP 21

**DRY, FINELY GROUND MINERAL POWDERS
(CEMENT, SCAGLIOLA, PLASTER, SLAKED LIME,
TILE ADHESIVES).**

VALVE SIZES

STANDARD

The TP 21 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

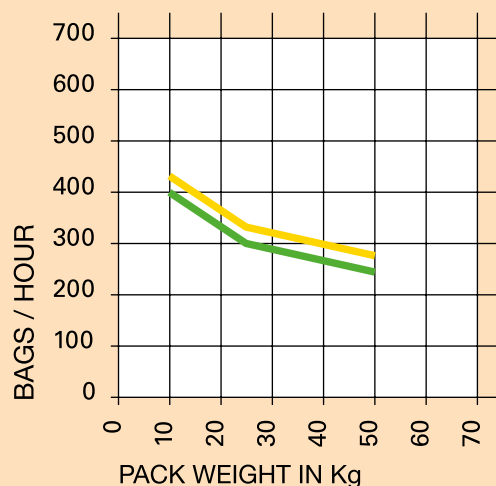
The same bagging machine can be equipped to fill bags of different sizes.

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.

TP 21 SPECIFIC WEIGHT
1,2 kg / litre



VALVE SPOUT			
90	110	130	150

SYSTEM ENGINEERING

TP 21 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.



TP 21

WEIGHING-BAGGING MACHINE FOR VALVE BAGS.

In construction for almost a century, the TP 21 series weighing-bagging machine, successor to the TP 35, is the right machine for weighing and bagging finely ground dry powders.

High performance and minimal maintenance are the key features of this machine, which is also compact and thus easily to include in any context.

Its modularity allows combined configurations of 2, 3 or 4 bagging machines in line.

Weighing is electronic by means of load cells.

HORIZONTAL TURBINE BAGGING SYSTEM.

The product is handled by a horizontal turbine, which propels it into the bag.

The device comprises a sturdy external case in special cast iron, with internal rotor (turbine) fitted with easily replaceable steel blades.

It is powdered by an electric motor via a belt and pulley drive.

A special guard ensures that the powder does not come into contact with the bearings.

A pneumatic guillotine damper shuts off the flow of product instantaneously when the weight is reached. Cleaning is simplified by the total opening of the side cover.

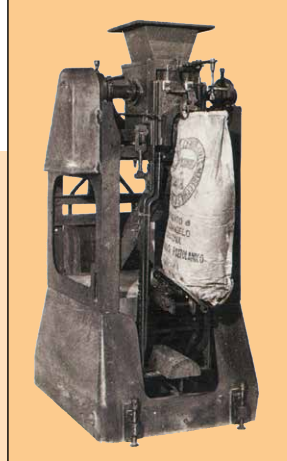
MAIN CHARACTERISTICS.

MINIMAL OVERALL SIZE.

DUST EXTRACTION PORT.

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

BEARINGS PROTECTED BY DUSTPROOFING
DEVICE INCORPORATING COMPRESSED
AIR PRESSURISATION CIRCUIT.



FLOW SHUT-OFF GUILLOTINE VALVE



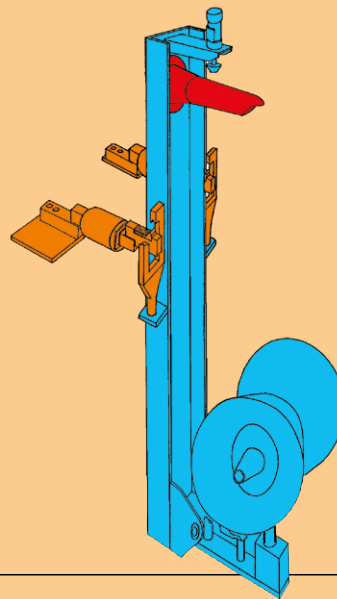
OPEN



CLOSED

ELECTRONIC WEIGHING

Electronic weighing eliminates moving parts, meaning there will be no wear. The electronic weighing system we manufacture provides instantaneous reading of the actual weight and performs the tare check. It is type-approved by the notified bodies in accordance with the European MI-006 Directives for automatic weighing instruments.



CS CONTROL UNIT

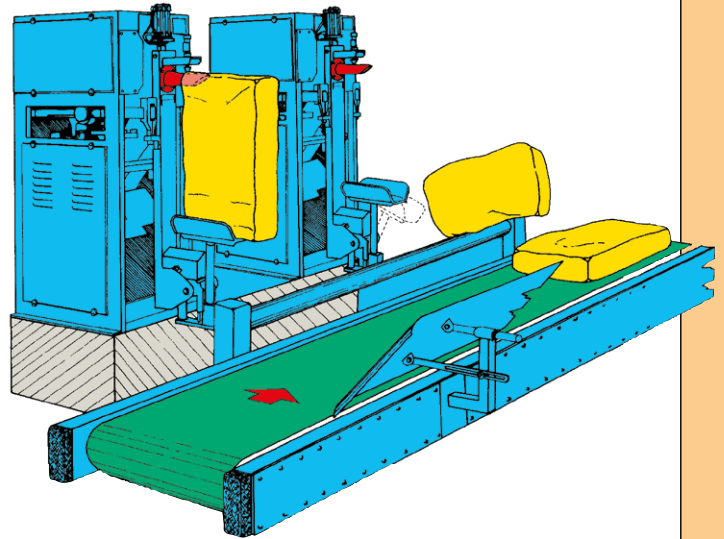
The model CS (Control System) electronic control unit, connected to the weighing system, provides pre-setting of the weighing phases and the final weight value. The current weight is displayed immediately.



OPTIONALS

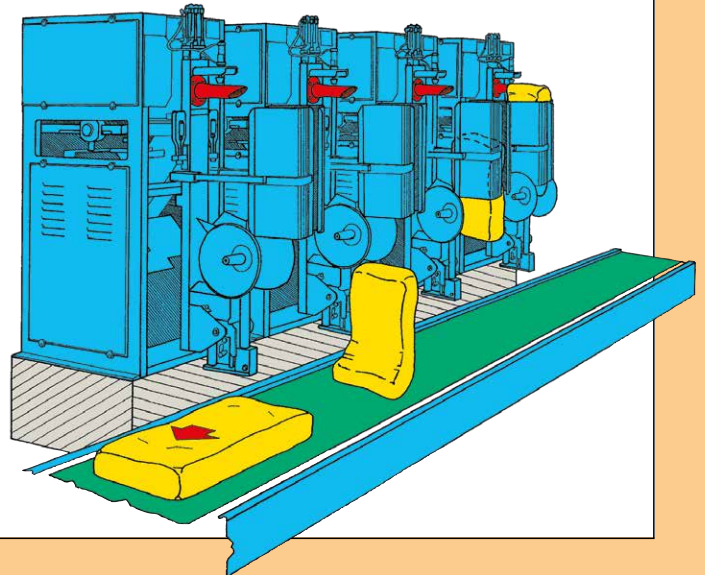
“FLIP-OVER” FULL BAG EJECTION

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.



OPTIONALS

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



VIDEO



IN-LINE VERSION

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



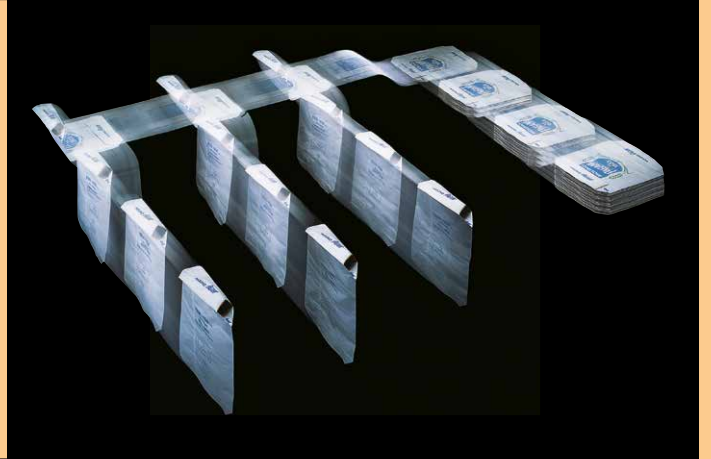
VIDEO



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.



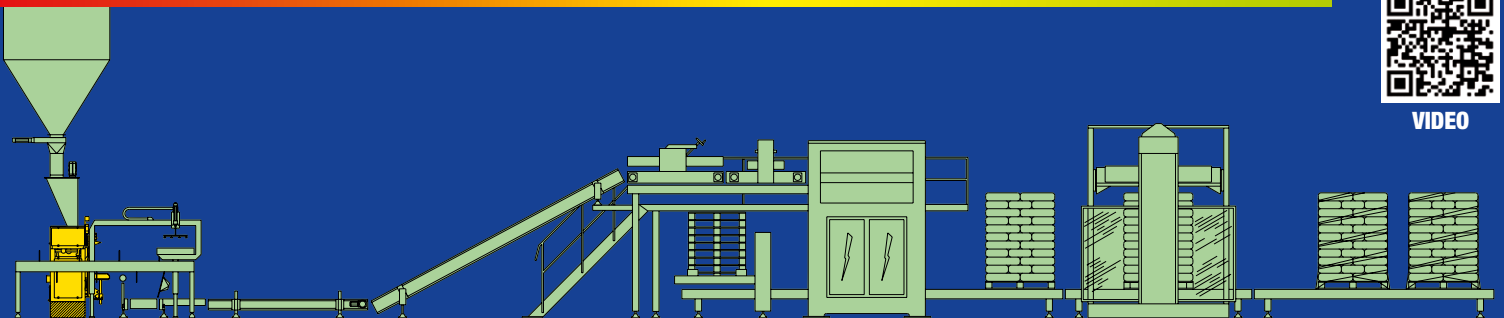
INFLATABLE SPOUT TO REDUCE DUST EMISSIONS

This application sharply reduces dust emissions during bag filling.

With this application, the bag must be micro perforated and must also be fitted with a valve (with sealable external collar).



PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.



VIDEO



PAGLIERANI

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

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