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# TP 35 - FLU 83

WEIGHING/BAGGING MACHINES FOR VALVE SACKS



 **PAGLIERANI**

# Series TP 35 and FLU 83 weighing/bagging machines for pre-formed bags, for use with fine powders and powder-granule mixes.

## TP 35

FINELY-GROUND DRY MINERAL POWDERS (CEMENT, CHALK, GYPSUM, HYDRATED LIME, TILE ADHESIVE).

## FLU 83

FINE AND COARSE POWDERS, FOODS, CHEMICALS AND MINERALS (STARCHES, PLASTIC POWDERS OR RESINS, REFRACTORY MIXES, PLASTER, CEMENT).

### VALVE SIZES

#### STANDARD

The Series TP 35 and Series FLU 83 may be equipped with filling spouts for the following standard valve sizes: 90 mm · 110 mm · 130 mm · 150 mm

#### SPECIAL

Spouts for special size valves (differing from those above) are available on request.

#### SIZE CHANGE

The same bagging machine may be equipped to fill different-size spouts. In this case, equipping the machine requires a size change time of approximately 30 minutes.

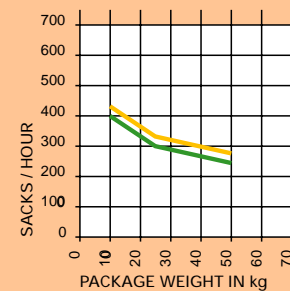
### CONFIGURATION

In line with the PAGLIERANI philosophy of creating integrated systems for higher output and automation, the TP 35 and FLU 83 weighing/bagging machines may be configured individually or in-line (see Figs. A and B). Automation is achieved by combining the machine with the Model FB automatic empty sack placer (see Fig. C).

### HOURLY RATES

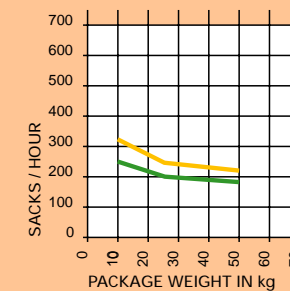
Valve size, product type, and the weight of the filled sack are variables that affect production rate, as indicated in the following graphs.

TP 35 BULK DENSITY 1,2 kg/litre



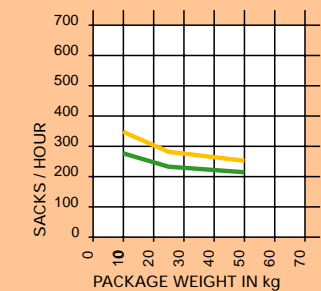
FILLING SPOUT  
90 110 130 150

FLU 83 BULK DENSITY 0,6 kg/litre



FILLING SPOUT  
90 110 130 150

FLU 83 BULK DENSITY 1,0 kg/litre



FILLING SPOUT  
90 110 130 150

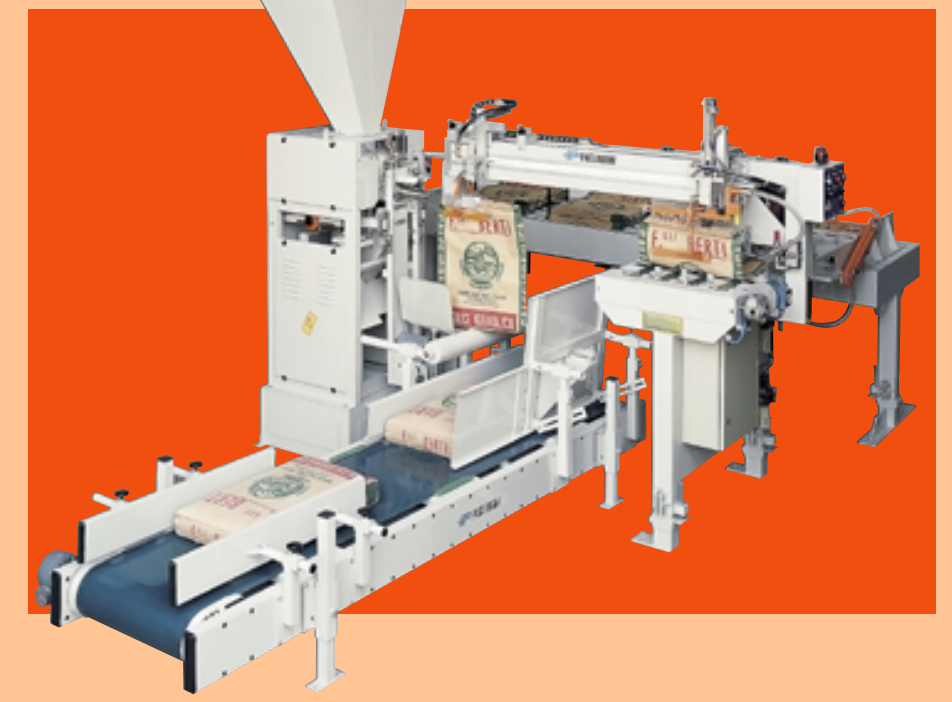
Fig. A - Configuration: three bagging machines in-line.



Fig. B - Configuration: four bagging machines in-line.



Fig. C - Configuration: connection to empty sack placer.



# TP 35

WEIGHING/BAGGING MACHINE  
FOR VALVE SACKS.

The TP 35 weighing/bagging machine has been in production for over 60 years, it is ideal for weighing and bagging finely ground dry powders. This machine offers high performance and minimum maintenance and its compact size makes it easy to install. Modular design allows it to be connected in-line in configurations of 2, 3, or 4 machines. The machine is available with mechanical weighing or electronic load cells weighing system. The product is handled by means of a horizontal axis turbine, which guarantees that the product is pumped into the bag. The turbine housing is a robust external casing in cast iron, it has easily replaceable steel turbine blades, and is powered by an electric motor via belt and pulley drive. A special seal ensures that powder does not come into contact with the bearings. A pneumatic pinch tube stops product flow immediately when the precise required weight is reached.

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## MAIN FEATURES.

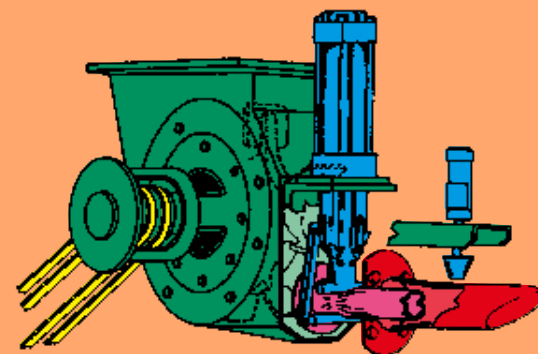
SMALL SIZE.

DUST COLLECTION HOOD.

VERTICALLY ADJUSTABLE SACK SUPPORT FOR FILLING OF DIFFERENT SIZE SACK.

BEARING PROTECTED FROM ENTRANCE OF DUST BY AN AIR PURGED SEAL SYSTEM.

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# FLU 83

FORCE FLOW  
WEIGHING/BAGGING MACHINE.

The model FLU 83 can handle finely ground products (powders) as well as granulated. Owing to its versatility, it is suitable for applications in the food, chemical and mineral industries. As it is modular, it may be installed in-line configurations of 2, 3, or 4 machines. The packer is available with mechanical weighing or electronic (load cell) weighing system. The product is handled by an air slide in the pressure chamber, which guarantees that the product is pushed into the bag by pressure. The bagging system includes:

- A pinch valve at infeed to control product feed.
- A pressure seal valve (taper valve).
- A pressure chamber complete with fluidizing plates. This features a "reverse corner" profile to facilitate product drop. All corners are rounded to minimize product build up.
- A vibrator (optional) to handle products which do not flow very well.
- Pneumatic valves to control the weighing phase (full flow and dribble flow) and to stop product flow immediately when the required precise weight is reached.

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## MAIN FEATURES.

VERSATILE.

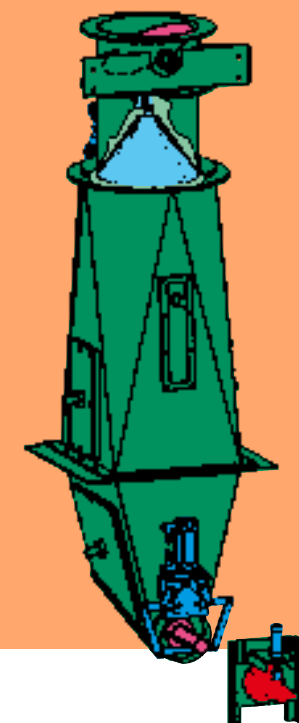
MINIMUM CROSS-CONTAMINATION.

NO WEAR OF INTERNAL PARTS.

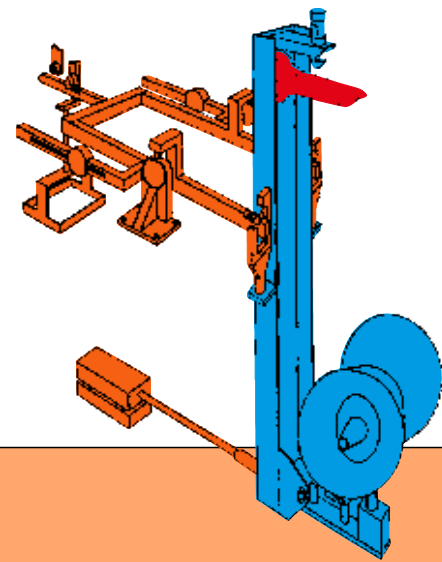
DUST COLLECTION HOOD.

VERTICALLY ADJUSTABLE SACK SUPPORT FOR FILLING DIFFERENT SIZE SACKS.

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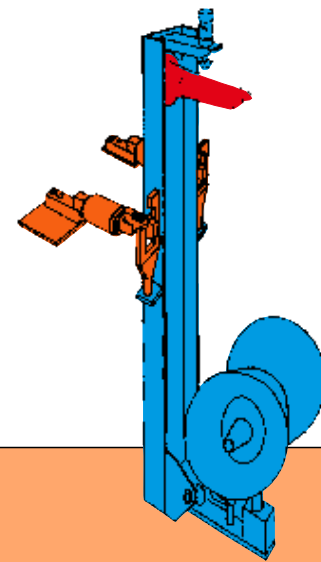


### MECHANICAL WEIGHING SYSTEM



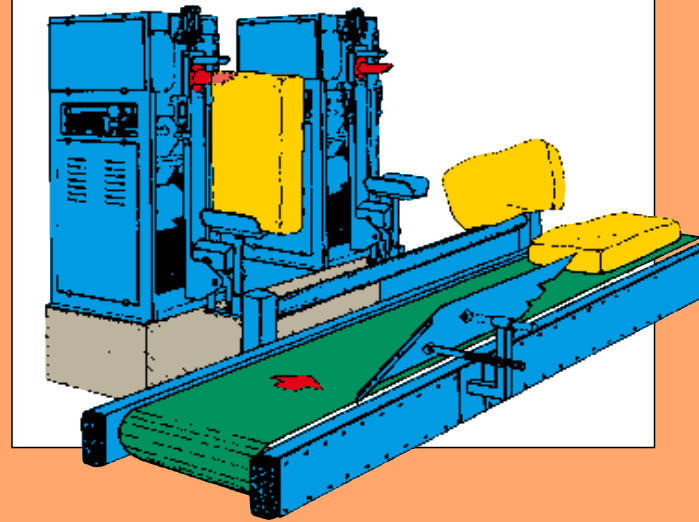
Weight control is performed with a 2:1 ratio beam equipped with hardened steel knife edges and anvil. A poise lever permits simple and accurate adjustment of the final weight required. The stop of weighing/bagging operations is controlled by an electronic sensor. All bagging elements (spout, sack support) are assembled directly on the weighing beam.

### ELECTRONIC WEIGHING SYSTEM



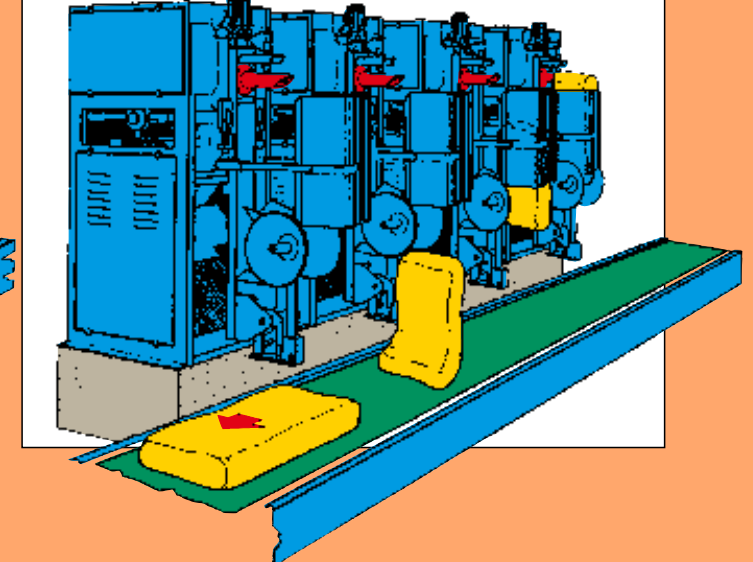
All moving parts of the weigher (weigh, bean and knife edges etc.) have been replaced by heavy-duty electronic load cells connected to the CS or SCS weight control system. All parts subject to wear are thus eliminated. The system provides instantaneous reading of actual bag weight as well as tare.

### "SOMERSAULT" DISCHARGE



Discharge of the full bag with "somersault" discharge. To increase efficiency, the filled bag may be discharged automatically by installing an (optional) pneumatic pusher on the bag support. The bag is discharged coaxially onto the conveyor belt. This application is indicated for the following configurations: Single, Double with operator seated in center, and Triple or Quadruple only in case of the automatic empty sack placer.

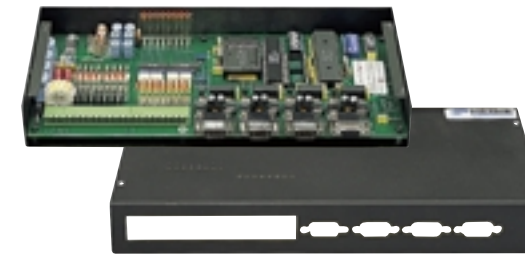
### "VERTICAL" DISCHARGE



Discharge of full bag with "vertical" drop. With this version, the packer is equipped with "shell shaped guides" to align the bag during discharge. The bag is discharged bottom first, onto the conveyor. The application indicated is for both single and multiple configurations with manual empty sack placing.

### CS CONTROL SYSTEM

The model CS electronic control system is connected to the weigher, and is used to load in the set points for coarse + dribble feed as well as final weight. The system provides instantaneous reading of bag weight.



### SCS CONTROL SYSTEM

With the addition of a microprocessor, the system is named SCS (Self Control System), which offers:

- Automatic tare;
- Automatic calibration (adjustment) of final weight;
- Optimization of weighing phases;
- Serial connection to computer.

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PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.

