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NE

ELECTRONIC NET WEIGHT WEIGHING DEVICES

PAGLIERANI

mechatronics at its best.

NE series electronic net
simple for bett

APPLICATION

The NE electronic weighing devices are installed on packaging machines, bagging machines (valve bags or open mouth bags) and forming machines, to prepare the quantity of product to be released into the bag.

Weighing device on VT 600 vertical packaging machine

Weighing device on IN V bagging machine

weight weighing devices:
er performance

Weighing device on manual bag clamp

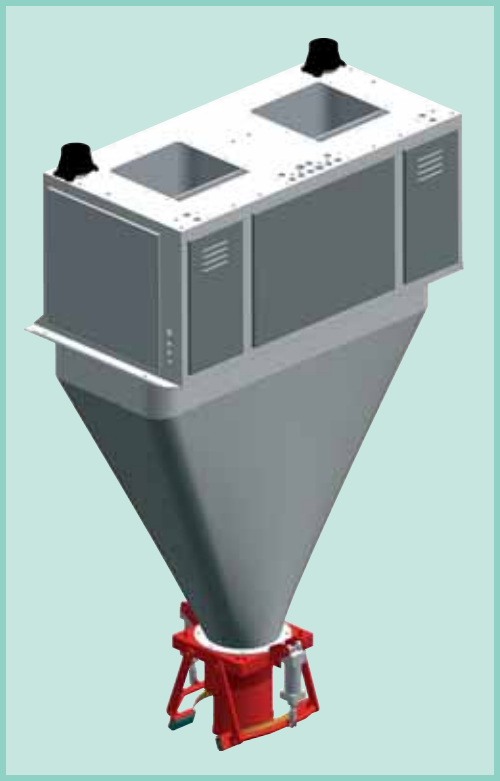
Weighing device on DA 40 packaging machine

PRODUCTION RATE

OBTAINABLE RATES WITH A SINGLE WEIGHING DEVICE *					
	5 kg	10 kg	25 kg	50 kg	100 kg
cereals	8	8	6,5	6	4
wheat flour	6	6	6,5	6	4
granulated fertiliser	8	8	9	8	5
plastic granules	7	7	7	6	4
powdered milk spray	5	5	4	3	2
feed pellets	7	7	7	6,5	4
feed meal	6	6	6	5,5	4
granulated chemical products	7	7	6	5	4
powdered chemical products	6	6	6	5	4
fluidised chemical products	4	4	3,5	3	2,5
sand and inert material	8	8	9	8	5
granulated sugar	7	7	7	6	4

* guideline values

The obtainable rate is closely related to the product (specific weight or particle size) and the weight to be bagged.



GROUP OF 2 WEIGHING DEVICES

To obtain higher rates, 2 or more weighing devices can be grouped together; in this configuration, the batches are released alternately.

WEIGHT PRECISION

The use of load cell technology (OIML approved to 3000 divisions) and of appropriate feed systems (suited to the physical characteristics of the product to be weighed) ensures high levels of precision.

PRECISION TOLERANCE*	
1-2 kg	+/- 0,35 %
5-10 kg	+/- 0,3 %
10-25 kg	+/- 0,1 %
25-50 kg	+/- 0,1 %
50-100 kg	+/- 0,1 %

* based on granular and free flowing products and on the maximum capacity of the instrument.

Paglierani weighing machines are standardised by the competent Metrology Centres in the most important countries (a list is available upon request).

CONSTRUCTION TYPE

- Minimisation of dust accumulation areas in compliance with the strictest hygiene regulations, to prevent contamination when the product to be weighed is changed.

- Removable covers to allow easy access for maintenance and cleaning.

- Dust extraction intake to depressurise the internal weighing chamber.

- Sealed chamber to house pneumatic and electrical equipment.

- Total absence of weighing leverages to ensure maximum weight precision and to eliminate all wear.

- Painted carbon steel or complete stainless steel construction for aggressive environments (fertilisers, salt, etc.).

WEIGHING CONTAINER

Rounded corners to prevent product accumulation; equipped with pneumatically controlled double bottom doors for batch release.
Painted carbon steel or complete stainless steel construction for aggressive environments (fertilisers, salt, etc.).
The container is constructed completely in food-approved rubber, only in the 500 g and 5000 g versions.
Various sizes are available to measure the volume for the final weight.

THE STANDARD SIZES ARE:

6,5 litres	142 litres
8 litres	276 litres
11,5 litres	595 litres
14 litres	1045 litres
16 litres	1670 litres
26 litres	2570 litres
73 litres	

Special sizes can be supplied upon submission of client's drawing (optional)

OPTIONS

- Teflon coating for sticky products.
- Electric vibrators are applied to the container walls to ensure release of non-flowing products.

PNEUMATIC CONTROL DEVICE

The pneumatic system is fully equipped with pressure reduction unit, filter, lubricator and solenoid valve. The system is located in a protected chamber which is easily accessed for maintenance.

EC DIRECTIVE

The NE series weighing-bagging machines are built in compliance with the European Community directives and are distributed with the CE mark.

ELECTRONIC WEIGHING CONTROL UNIT

Available in three user-friendly innovative, high technology versions with proven reliability and precision.

The displayed value is the value set by the operator.

STANDARD VERSION

- Digital setting of weighing flows (fast and slow) and final weight.
- Positioned onboard the weighing device (no remote control).
- External calibration.
- Does not display increments in the numeric weight value and cannot communicate with pc or external printers.

CS VERSION

- Weight display.
- Off weight alarm.
- Excess tare alarm.
- Remote positioning up to a distance of 100 metres.
- 8 pre-set formats for automatic selection (useful for the quick format change procedure).
- Automatic calibration (optional).
- Remote RS 232 and RS 422 communication (optional).
- Membrane keyboard.
- Batch counter.

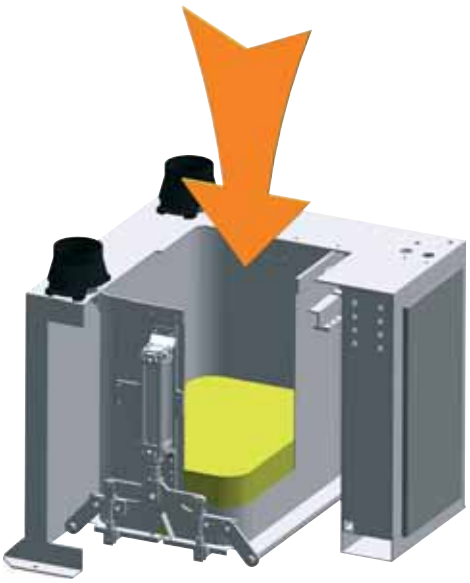
SCS VERSION

This is an advanced version of the CS model, complete with final weight optimisation function (automatic weight correction according to a pre-set tolerance variable).

OPERATING PRINCIPLE

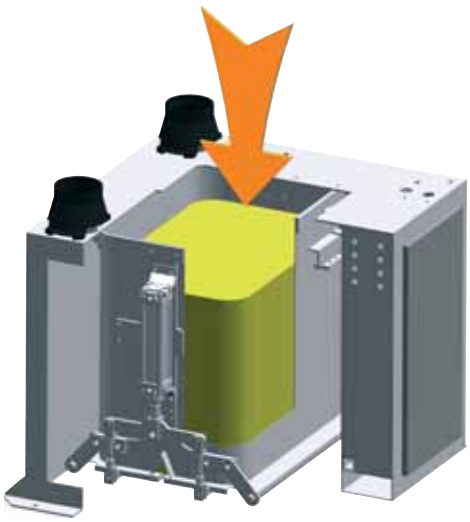
The product is weighed in a container and is then released into the bagging machine (when the weight is reached). Weighing takes place in 3 phases.

Fast feed phase



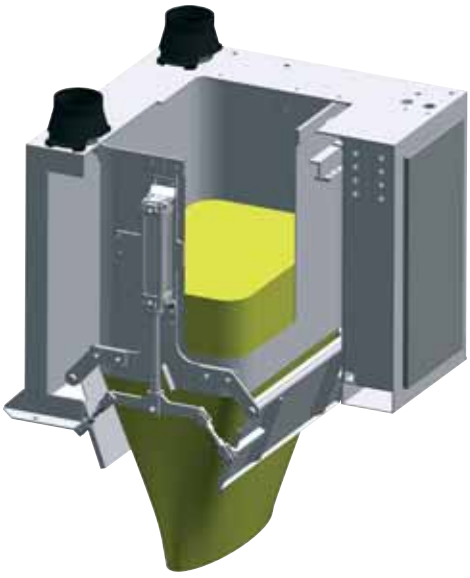
To rapidly reach approximately 80% of the final weight.

Slow feed phase or finishing flow



To precisely reach the value of the final set weight.

Batch release phase



The weighing container bottom doors open.

FEED DEVICES

There are five different feed devices to best adapt the weighing device to the product being processed and to obtain the rate (batches per minute) for reaching the best performance levels (speed and weighing precision).

GATE-VALVE FEED DEVICE

G

- For free flowing granular products, both fragile and non fragile.
- Complete with two pneumatically controlled gate-valves for the control of fast and finishing flows.
  The gate-valves are adjustable to adapt the flow rate to the specific application.
- The standard version is constructed in carbon steel.

OPTIONS

- Electric agitator applied at input (to facilitate product flow in the case of material of medium and irregular particle size).
- Stainless steel construction.

BELT FEED DEVICE

N

- For products with small and medium particle size, fragile and non fragile.
- Gear motor drive.
- Complete with two pneumatically controlled gate-valves (one vertical knife gate-valve and one helmet gate-valve) to control fast and finishing flows.
- The standard version is constructed in carbon steel.

OPTIONS

- Electric agitator applied at input (to facilitate product flow in the case of material of medium and irregular particle size).
- Frequency converter to control speed (and therefore the flow rate).
- Stainless steel construction.

TURBINE FEED DEVICE

T

- For non-free flowing, lightly aerated powdered products of small and medium particle size.
- Complete with two pneumatically controlled vertical knife gate-valves for the control of fast and finishing flows.
- The standard version is constructed in carbon steel, cast iron or aluminium.

OPTIONS

- Stainless steel construction.

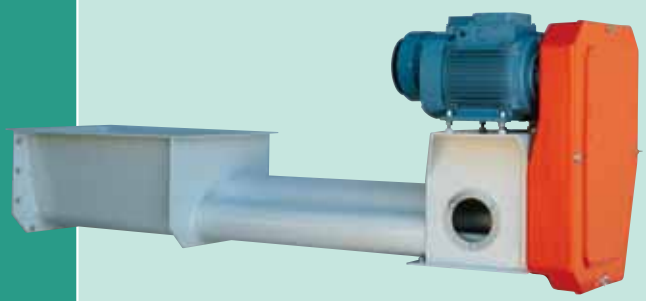
SINGLE SCREW FEED DEVICE

SC

- For products with small particle size (aerated/non aerated) and mixed particle size.
- Complete with pneumatic gate-valve, positioned at the top, to immediately stop feed flow when weight is reached.
- Drive with inverter control (frequency converter) for flow rate adjustment based on the physical characteristics of the product being processed, as well as on fast and finishing flows.

OPTIONS

- Stainless steel construction.
- Doors which can be opened for inspection and cleaning.
- Rapid screw removal for easy and complete cleaning (totally prevents contamination when switching between incompatible products).
- Multiple screw set-up (max. 4) to feed the same weighing device with different products.



DOUBLE SCREW FEED DEVICE

DC

- For products with small particle size (aerated/non aerated) and mixed particle size.
- Complete with pneumatic gate-valve, positioned at the top, to immediately stop feed flow when weight is reached.
- Toothed pinion drive for control of fast and finishing flows.

OPTIONS

- Stainless steel construction.
- Drive with inverter control (frequency converter).
- Doors can be opened for inspection and cleaning.
- Rapid screw removal for easy and complete cleaning (totally prevents contamination when switching between incompatible products).
- Multiple screw set-up (max. 4, expandable to 6 only for the 50 and 100 g sizes) to feed the same weighing device with different products.

NE/G

NE/N

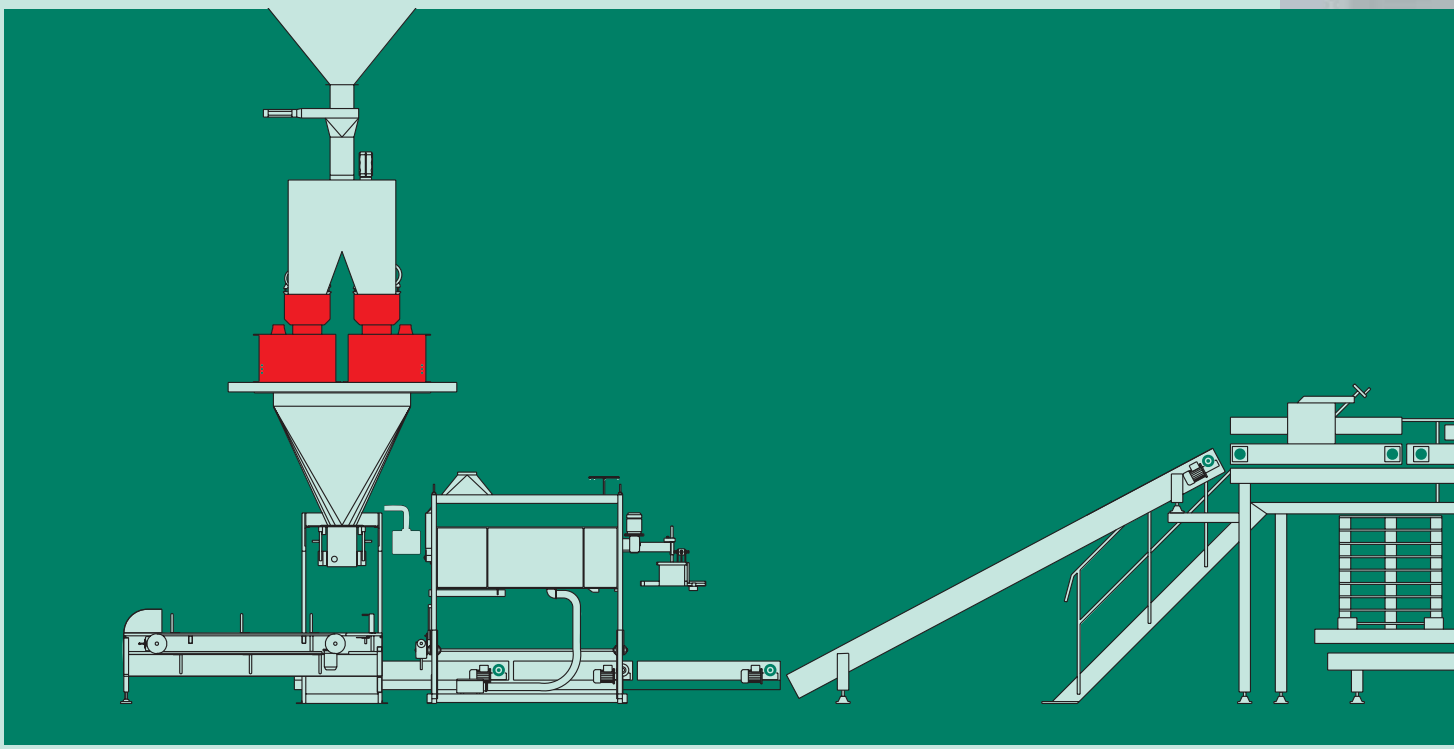
NE/T

NE/SC

NE/DC

A GREAT ITALIAN MANUFACTURER WITH PROVEN EXPERIENCE

A long history of success (in the industry since 1926), now in its fourth generation: modern, competitive machining techniques (laser cutting, automated robotised welding, automatic work centres) and a technical department dedicated to continuous research and development. This is what makes Paglierani a reliable and efficient partner.



PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.

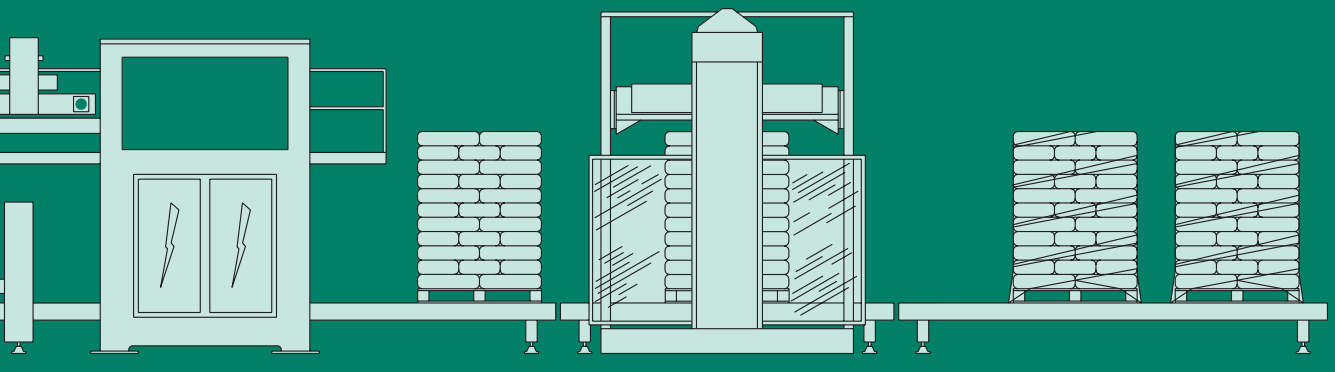


Foto Studio Morosetti · Rimini DELLEASSOCIATI.it

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PAGLIERANI GROUP

PAGLIERANI

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

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