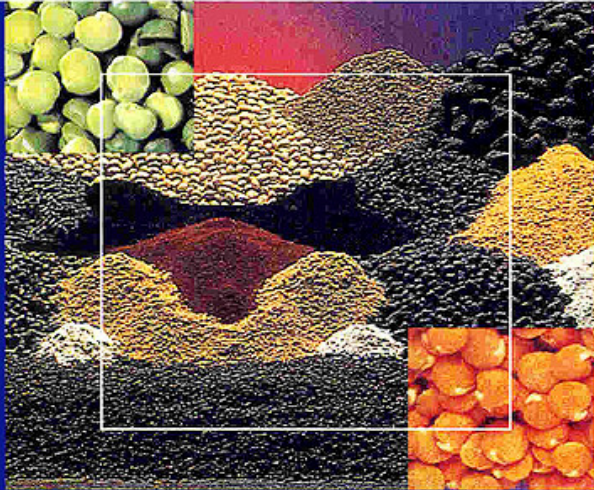




EN/EG Series

Automatic Net/Gross Weighing and Bagging System



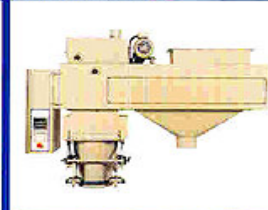
Net weigher with screw



Gross weigher with screw



Gross weigher with belt



Gravity gross weigher



Net weigher with belt



Valve bag packer



Value bag gross weigher



Bag closing system with conveyor



Sewing conveyor



Automatic Net / Gross Weigher



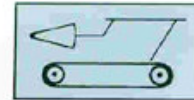
EN-2P-BF-SS

APPLICATION

This simplex net weigher is designed for high speed bagging as it has an integral internal hopper for weighing and discharge into waiting empty bags below after clamping. Each weighment is pre-weighed accurately inside the weigh hopper, once a bag is clamped, discharge is commanded and when the scale is zero, the next weighing is resumed automatically.

CAPACITY : 50kg x 0.01kg

SPEED : Simplex 400 - 600 bags per hour



WEIGH HOPPER

The unique weigh hopper design prevents material hang-up and is supported by two load cells complete with pneumatically actuated twin drop bottom flaps for a quick discharge. The weigh hopper is fitted with two pneumatically operated vibrators which vibrate during discharge to ensure clean discharge. Maintenance door is also provided for quick inspection and maintenance.

PNEUMATIC BAG CLAMP

Directly mounted from the discharge hopper, the pneumatic bag clamp is complete with bag spout and an integral pneumatically actuated quick-action bag clamp by two short air cylinders. By two hands operation, the CLAMP switch is activated and the bag is automatically clamped to the bag spout which automatically command the weigh hopper to discharge. When scale is zero, next weighing is resumed and the clamp opens automatically after a time delay and lets fall down the filled bag.

DOUBLE DISCHARGE

For filling bag above the scale capacity, operator can select for double discharge into bag.

Note: Shown here is Model: EN-2P-SF-SS which is optional stainless steel construction.



EN-2P-SF-SS

BELT FEEDER

Dust tight design enclosure with inlet flange connection.

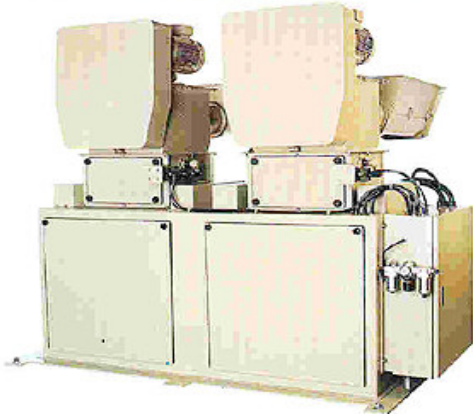
Endless flat belt conveyor driven by change-pole two speed gear motor and self cleaning rollers. The product inlet feeding funnel is with material thickness control and pneumatically operated two steps course and time flow regulator which is adjustable for different material density. A final closing gate is also incorporated for precise clean cut and minimum free fall. It is suitable for bagging semi-free flowing coarse-floury, mealy, grinded, granulated, palletized and small size products such as fodder meals, raw sugar, chips, pellets, meals, mash foods, fatty acid, flakes, beads, soap noodle, fertilizer, mineral powder, fishmeal, sawdust, unshelled peanuts, washing power, etc.



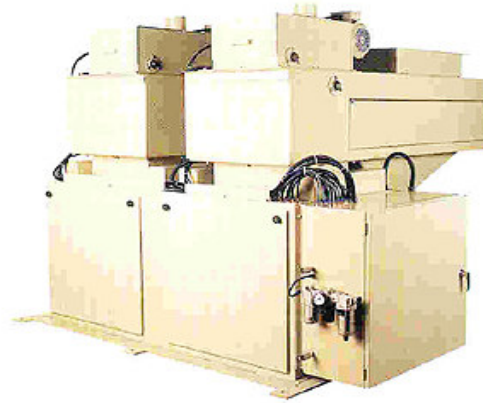
SCREW FEEDER

Twin scrow with main and dribble feed screws driven by separate motors with cut-off gate for precise clean cut and minimum free fall. Dust tight design with bearings not in contact with the product ensure long reliability. Cleaning is easy by opening covers on the screw tube. It is suitable for bagging fine powdery and mealy up to floury, sluggish, flushy or rapidly spreading with low density not adhesive products such as fine mealy food, wheat, flour, milk power, fine semolina, plastic resins, cement, chemical powders, etc.

EN / EG Series



DUPLEX NET WEIGHER EN-4P-SF



DUPLEX NET WEIGHER EN-4P-BF

APPLICATION

The EN-4P series duplex net weighers are designed for high speed bagging as it has integral internal twin weigh hoppers for weighing and discharge alternately into waiting bags below after clamping. Both weighers start weighing simultaneously. After a weighment is weighed accurately inside the weigh hopper and once the bag is clamped, discharge is commanded and when the weigher is zero, the next weighing is resumed automatically. At any one time, there is always a weighment pre-weighed waiting for discharge into bag.

CAPACITY : 50KG X 0.01KG for each weigher
 SPEED : Duplex 800 - 1200 bags per hour

For detail specifications on belt feeder, screw feeder, etc please refer to details under EN-2P series.

Our series of EN-2P-XX are SIMPLEX NET WEIGHER which contain single weigh hopper for pre-weighing. EN-4P-XX are DUPLEX NET WEIGHER which contains double weigh hoppers for pre-weighing.

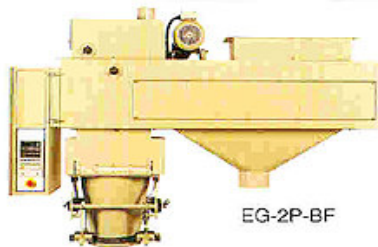
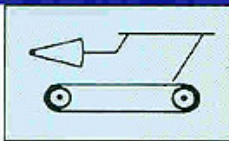
NET weighers have the following features:

- Weighment is denoted as NET, because the product is weighed in the weigh hopper and then discharge into bag.
- Weighment is accurately weighed in two stages with fast/slow dosing.

The machine have a sturdy frame with sealed compartments for the electropneumatic control components, etc with easily opened air-tight doors. A dust extraction vent is provided for connection to the dust collection system.



DISCHARGE HOPPER AND BAG CLAMP



EG-2P-BF

Model : EN-2P-BF-SS which is optional stainless steel construction.

APPLICATION

The application is similar to EG-2P except that it has an integral belt feeder and is most ideal for bagging non-free flowing materials such as fishmeal, fertilizers, mash feeds, raw sugar etc.

CAPACITY : 60kg x 0.01kg
SPEED : 250 - 300 bags per hour

BELT FEEDER

Dust tight enclosure with flange connection. Endless flat, belt conveyor driven by change-pole two speed gear motor and self cleaning rollers. The product inlet feeding funnel is with material thickness control and pneumatically operated two steps course and time flow regulator which is adjustable for different material density. A final closing gate is also incorporated for precise clean cut and minimum free fall. It is suitable for granulated, palletized and small size products such as fodder meals, raw sugar, chips, pellets, meals, mash foods, fishmeal, sawdust, unshelled peanuts, fertilizers, washing powder, etc.

FLOW CONTROL

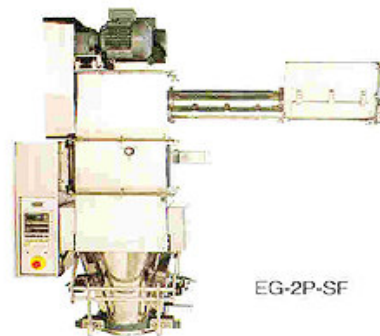
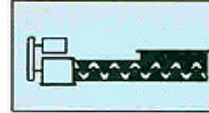
The product feeding funnel is with material thickness control and pneumatically operated two steps course and fine flow regulator which is adjustable for different material density.

FINAL GATE

Pneumatically operated final closing gate for precise clean cut and minimum free fall.

WEIGHING BAG SPOUT

Fully suspended by electronic load cells complete with bag spout and integral pneumatically actuated quick-action bag clamp by two short air cylinders. The design is of duct tight version.



EG-2P-SF

APPLICATION

The application is similar to EG-2P except that it has an integral twin screw feeder and is most ideal for bagging non-free flowing materials such as fine mealy food, wheat, flour, milk powder, cement, etc.

CAPACITY : 60kg x 0.01kg
SPEED : 250 - 300 bags per hour

TWIN SCREW FEEDER

Twin screw with main and dribble feed screws driven by separate motors with cut-off gate for precise clean cut and minimum free fall. Dust tight design enclosure with inlet flange connection. Its unique design with bearing not in contact with the product ensure long reliability. Cleaning is easy by opening covers on the screw tube. It is suitable for bagging fine powdery and mealy up to floury, sluggish, flushy or rapidly spreading with low density not adhesive products such as fine mealy food, wheat, flour, milk powder, fine semolina, plastic resins, cement, chemical powders, etc.

FINAL GATE

Pneumatically operated final closing gate for precise clean cut and minimum free fall.

WEIGHING BAG SPOUT

Fully suspended by electronic load cell complete with bag spout and integral pneumatically actuated quick-action bag clamp by two short air cylinders. The design is of dust tight version.

EN / EG Series



EG-2P-GF

APPLICATION

The application is similar to EG-2P with the exception that the EG-2P-GF is of dust tight design and is highly recommended for bagging dusty materials. The pneumatic bag clamp also gives increased bagging speed over standard can-grip bag holder. By two hands operation, the CLAMP switch is activated and the bag is automatically clamped to the bag spout which automatically start the weighing and filling process. After having reached the exact weight, the clamp opens automatically after a time delay and lets fall down the filling bag. For bagging high capacities please consult us. For bagging non-free flowing materials, please refer to other models.

CAPACITY : 60kg x 0.01kg
SPEED : 250 - 300 bags per hour

WEIGHING BAG SPOUT

Fully suspended by electronic load cells complete with bag spout and integral pneumatically actuated quick-action bag clamp by two short air cylinders. The design is of dust tight version. Spout circumference is almond-shaped standard at 850mm.

FLOW CONTROL INLET GATE

Front handle to adjust inlet opening for optimum flow control to cater for different type of materials.

TWO STAGES FEED GATE

The feed control gate is controlled by a two stages fast/slow pneumatic cylinders which will open the gate fully for fast feed and close by 2/3 for slow feed when near the target weight (the amount for slow feed is dependant on the settings to the indicator). Most suitable for bagging free rolling, ground, granulated, pelletized, crystalline products such as cereals, seeds, rice, sands fooder, salt, sugar, fertiliser granulates etc.



EGV-1-SF

APPLICATION

It is design specially for bagging free flowing granulates, crystalline, palletized and free flow product such as rice, beans, grains, sugar, ice cube, salt, chocolate chips etc.

CAPACITY : 1kg x 20kg x 0.005kg
SPEED : 200 - 300 bags per hour

THREE STAGES FEED GATES

The feed gate is controlled by two different gates for fast feed. The two main gates will open; as for slow feed one main gate will half close. The final accuracy will be based on its second gate on its final close acting as a dribble gate thus maintain the actual accuracy of the bagging.



ERP-1-HS

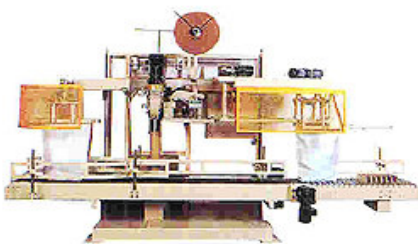
Solid or finish product medium bagging scale (20/100kg) and jumbo bag scale (500/2500kg)



AUTO BAG PLACER



EGV-1F2 TWIN VALVE PACKER



ECL-SEW AUTOMATIC BAG SEWING LINE



ECL-HS AUTOMATIC HEAT SEALING LINE

With our knowledge of the material characteristics and extensive material handling "know-how", we can offer valuable experience in the design, manufacture and installation of complete packing plants to provide bagging scales for filling from 20kg to 100kg bags. It can bag from a wide range of product such as rice, fatty acid, flakes, beads, fertilizer, seed, grain, fishmeal, animal feed, flour, powder soap chips, sugar, etc., into valve bags or open-mouth bags of different sizes and types such as paper, cotton, jute, PP, PE, etc. A complete range of standard products are available, either as individual units or as part of a complete intergrated bagging line for which the responsibility is taken from start to finish including automatic bag placer, sealing, sewing, wrapping, palletising, silo dischargers, feed bins, feeders, weighers, de-aeration systems - Our products and experience can meet all demands in the field of bagging technology.

We have delivered many packing and bulk handling systems for all types of bulk materials and requirements. Several models are available for bulk weighing from ship to silo, silo to ship, silo to truck, silo to wagon, silo to process etc. They are all microprocessor controlled throughout the weighing system for bulk intake, outloading and target totalisation of a wide range of powder and granular products with approval for trade use.

AD-8119 CABEL PRINTER

Connect the AD-8119 impact dot matrix printer to perform printing weight of each bag on label. It prints 28 characters per line with date/time. Print ID code, product name, quality, total weight gross weight, tare weight and net weight.

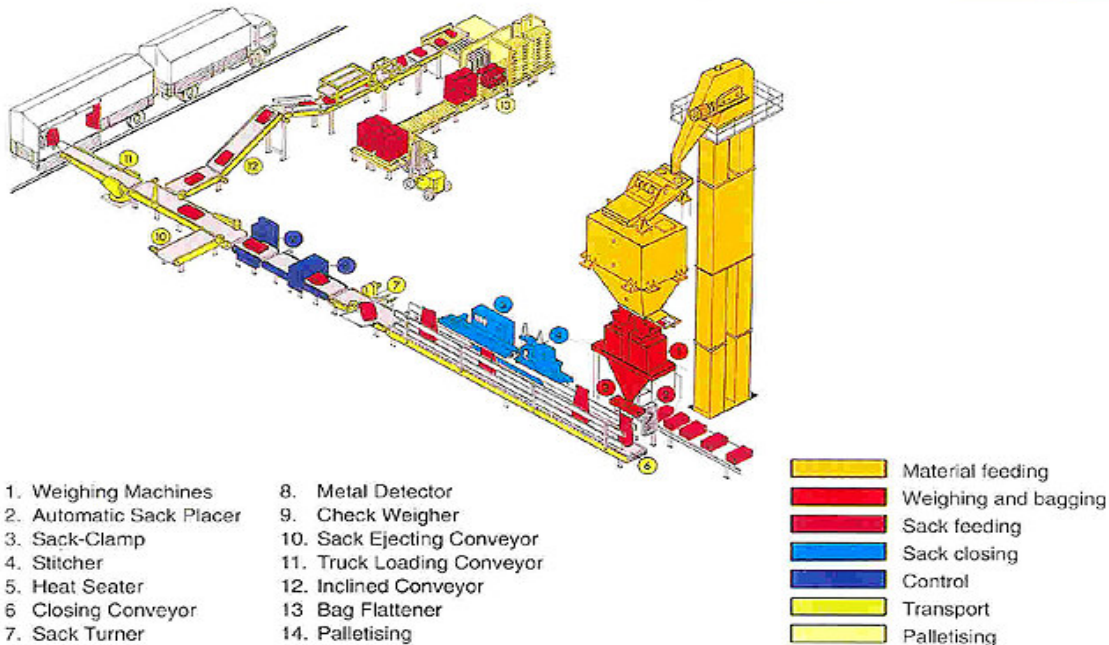


AD-8118 TALLY ROLLPRINTER

Connect the AD-8118 impact dot matrix printer to perform printing weight of each bag on tally roll. It prints 24 column per line with date/time, cumulative function by code allows subtotals and grand totals. Other features include statistical analysis with maximum, minimum, average and standard deviation calculations.



EN / EG Series



In addition to the versatility of our standard weighing machines, we can offer valuable experience in the design, manufacture and installation of complete packing plants. We are your experienced partner in a complete range of weighing, bagging and conveying system for handling bulk goods. Above is a typically bagging plant for free-flowing products with a plant capacity of 1200 sacks/hr woven PP-sacks with PE-liner for an automatic sack placing, filling, sewing and sealing of the PP-liner.

Utilising high performance controller with fast, rugged and reliable features for dynamic weighing applications. It can store up to 100 set points sets by individual code numbers.

Our control system are designed with the following unique features:

- Tailored control system for your specific plant
- Coloured mimic to depict weighing process
- Simplicity of operation with good visual control
- Illuminated switches depict stage of weighing
- Clear indication of all passages and operation
- Automatic control and regulation of parameters
- Reliable design with high quality components
- High dependability and high simplified maintenance
- Maximum efficiency with minimum operator



EN DUPLEX WEIGHER
CONTROL PANEL



EN SIMPLEX WEIGHER
CONTROL PANEL

Technical Specifications

The EN/EG series bagging scale are tough enough for industrial usage and yet give you high resolutions with a full range of features to make your bagging faster and more accurate. The system is in one complete portable assembly consisting of the bagging scale, weighing controller, pneumatic components etc. It provides simple, accurate bagging of a wide range of products.

Due to the close co-operation with our customer, we have a program of weighing systems bagging scales ideally adapted and meeting almost all requirements. We have the packing technology and know-how to provide bagging scales to filling from 1kg to 2000kg bags. It can be a wide range of open-mouth bags of different sizes and types such as paper, cotton, jute, PP, PE etc. Whether it is a net or gross weigher, our scales will fill for you with speed and accuracy, including sealing or stitching.

STANDARD FEATURES

- Digital weight indication
- Fully electronic load cell weighing
- Full digital calibration
- Automatic free fall compensation
- Automatic zero point check
- Single/double discharge
- Fast/slow 2 stages feed control
- No mechanical and moving part
- Quick bag grip and release
- No bag no fill
- Proven reliable design

TECHNICAL SPECIFICATIONS ACCURACY

Scale accuracy is +/- 10g
Bagging accuracy is +/- 50g (Std. dev)

OPERATING SPEED

The bagging speed is highly dependant on the density and flowability of materials and the operator's speed in placing the bag as well as time delay for printing, if any.

BAG COUNTER

Standard with all models resettable electronic counter to register total number of bags filled.

CONSTRUCTION

All models are standard with heavy duty mild steel platform to ensures long life. Models no. with SS are of optional stainless steel construction to satisfy sanitary, corrosive or abrasive requirements.

LOAD CELLS

High precision single point load cells. Cells are environmentally protected against moisture damage by Transeal II plus neoprene boot over gagged area and secured by adhesive and bonds. Cells offer exceptional resistance to eccentric angular load error. Direct and effective mounting onto weighing spout with no other mechanical linkages or moving parts and is unaffected by everyday wear and tear. No problems with shock loading and overloading.

MICROPROCESSOR WEIGHING SYSTEM

The electronic weighing system ensures accurate weighing process and also automatically controls the weight of each weighing. The weight values can be output to external device for further data processing recording.

BAG CLAMP

The design is of dust tight version with air escape channel. Spout circumference is almond-shaped at 700mm and 850mm depending on requirement.

FINISH

Prime coat in red oxide anti-rust paint and finish with green epoxy powdered paint. Model no. with SS are of stainless steel finish.

AIR SUPPLY

6-7kg/sq.cm at 0.2 cu.m/min, a filter-lubricator unit is provided.

ELECTRICAL SUPPLY

230 VAC + 10%, -15%, 50/60 HZ, single phase

AMBIENT TEMPERATURE

-5 deg C to + 40 deg C

OPERATING HUMIDITY

Less than 85% RH (non-condensing)

Note: Specification may be changed for improvement without notice.



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