UNIVERSAL FILLING MACHINE-RAU

TECNOCEAM S.R.L.
VEGETABLES PROCESSING PLANTS

The machine is suitable to fill containers of different formats - glass, tinplate or PET - with vegetable products of proper sizes and/or shapes (olives, artichokes, cucumbers, dried tomatoes, legumes, fruits, etc.). The filling occurs by product falling from a vibrating distribution plane over the containers, that are moving in a underlaying position on a specially provided conveyor.

TECHNICAL SPECIFICATIONS

Approximate production range:
(variable according to product sizes, container format and process settings)
3.000 – 18,000 kg/hr
Filling volume: 100 ml - 5,000 ml

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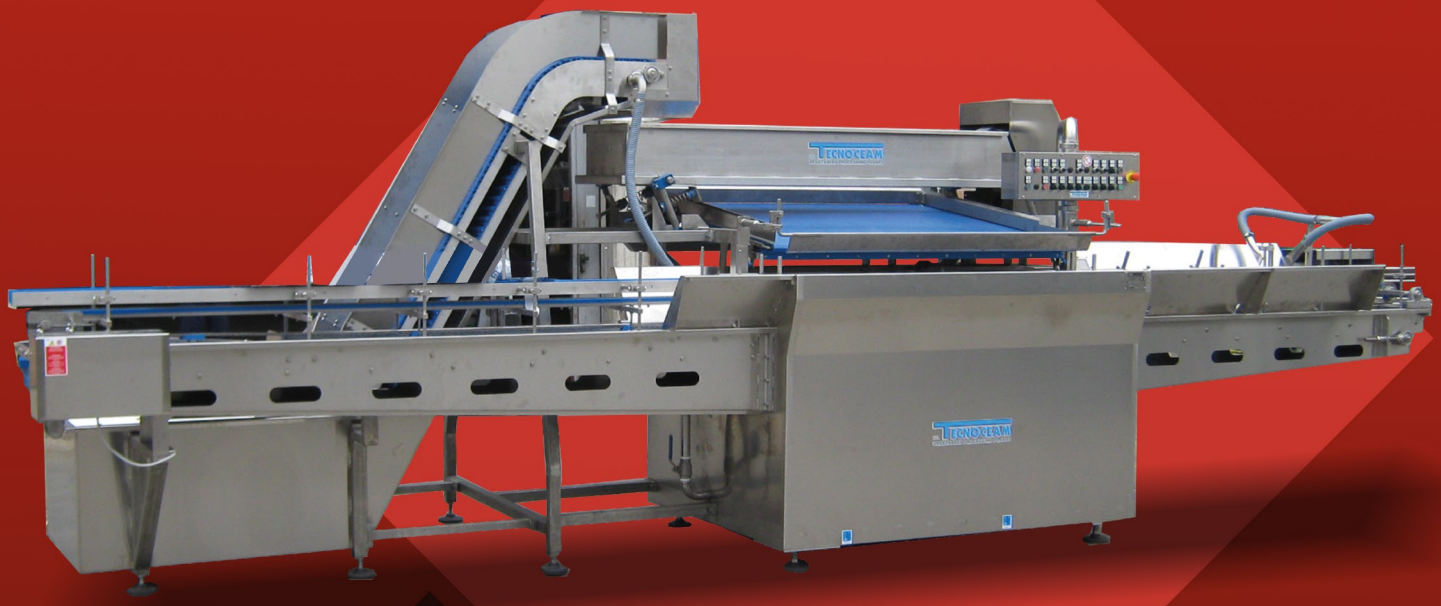

MANUFACTURING CHARACTERISTICS:

The machine, completely made of stainless steel, consists of the following essential parts:

- A robust frame to support all machine components equipped with height-adjustable feet;
- Product loading hopper;
- Bucket elevator conveyor for automatic product feeding;
- Vibrating plane with duly grooved double hopper with a double function of both product reception from the elevator and its homogeneous distribution into the passing containers on the lower conveyor;
- Container chain conveyor divided in two sections: the first one with a side vibrating system to ease product distribution inside containers; the second one with a side and lower vibrating system to ease the outfeed of the product in excess;
- Recovery conveyor for the product which has not been deposited into the containers;
- Control panel;
- Safety devices in compliance with the EU regulations.

The transmission of different movements is obtained by means of electric motors.

NOTE: all machine components meant to be into contact with foodstuff are manufactured in compliance with current EU regulations on this subject.

OPERATING PRINCIPLE:

The vegetable product is inserted in the loading hopper of the feeding bucket elevator that deposits the product on the grooved hopper of vibrating distribution plane.

The latter distributes and make vegetable fall down on the empty containers that are passing on the conveyor positioned under the unloading hopper of the vibrating plane. Plane vibration is generated by a system consisting of motorisation, belt transmission, vibrator, oscillating elements and sprung support. The same container transportation chain is equipped with a double inclination and vibration system created by springy sides and linked to motorised eccentric gears, that inclining and shaking the containers for certain part of the transfer, eases the outpouring of the product in excess, contributing this way to a more uniform distribution of the product itself inside the containers.

Once the containers are filled, they are conveyed by the conveyor to the next process stages (gravity filling or vacuum with preserving fluid etc.), while the product – both the not deposited one and the one in excess – is recirculated through the specially provided recovery conveyor placed under the container transfer chain and moves forward in the opposite direction to it. By means of a specially provided switch this product volume is re-conveyed into the recovery hopper of the feeding elevator to start a new filling cycle.

ADVANTAGES:

- Extreme versatility (the machine can be used for a particularly wide range of both solid vegetable products and containers);
- Reduced percentage of product loss thanks to a specially provided recovery system;
- Continuous process cycle automation with consequent manpower saving;
- Possibility of sizing and manufacturing configuration according to the specifics of the product to be treated;
- Possibility to vary the entire machine speed from the control panel (according to the format of the container to be filled) and vibration intensity;
- Easy access to inner components for cleaning and maintenance;

OPTIONAL available upon request:
PVC additional motorised conveyor installed under the vibrating plane to optimise product distribution homogeneity on the vibrating plane surface.

RELATED MACHINES:

Desalting/rehydration tank, Vegetable washer, Cutting machines, Pressing unit, Vacuum filling machine/Gravity filling machine.

NOTE: machine images appearing in the present folder are indicative only and could differ from the last model in production.

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