

AUTOMATIC TOP-AND-TAIL CUTTING MACHINE FOR GREEN BEANS-SF



TECNOCEAM S.R.L.
VEGETABLES PROCESSING PLANTS

The machine is suitable to top-and-tail both green bean extremities.



TECHNICAL SPECIFICATIONS

Approximate production:

(variable according to drum length and to process settings)

150 - 250 kg/hr

Maximum overall dimensions

(standard version):

3,300 x 870 x H 1,700 mm

Installed power: 0.75 kW

Voltage: 230/400 V – 50 Hz



NOTE:

these data are referred to standard models and are subject to variations due to machine updates and/or specific client needs.

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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;
- Flighted lift conveyor – with adjustable speed by means of an inverter – for product automatic feeding;
- Loading hopper;
- Rotary drum with adjustable speed by means of an inverter, manufactured in pierced sheet with properly shaped grooves, equipped with product orientation system, by means of plastics elements inserted inside the drum not to damage the product;
- Cutting unit made of a series of triangular stainless steel blades following the drum shape whose perfect adhesion to the external surface is obtained by their housing on elastic supports;
- Blade timed washing system using spraying nozzles;
- Topped and tailed product unloading hopper;
- Process waste outfeed hopper;
- Control panel;
- Safety devices in compliance with the EU regulations. Cutting components (cutting units) are duly protected by fixed or openable carters.

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

NOTE: all machine components meant to be into contact with foodstuff, comply with current EU regulations on this subject.



RELATED MACHINES:
Vegetable washer,
topped and tailed
product sorting
conveyor.



OPERATING PRINCIPLE:

The product to be topped and tailed, loaded into the collecting hopper using an automatic lift, is inserted inside the rotary drum. This is internally equipped with switches through which green beans are oriented while moving forward inside the drum. During this operation the slim green beans extremities protrude through the perforated drum shaped grooves. The external blades, following the drum external profile, execute the top-and-tail.

Top-and-tails are then discharged through a specially provided unloading hopper, while green beans come out ahead of the machine to be collected in specially provided containers or deposited on a sorting conveyor leading them to the next process stage or to packaging.

PRODUCT MACHINABILITY: fresh and pre-calibrated.

ADVANTAGES:

- Delicate product handling;
- Precise and homogeneous topping and tailing with reduced waste amount;
- Automatic positioning of the products to be topped;
- Long-lasting and quick replacement of the cutting components;
- Continuous process cycle automation with consequent manpower saving;
- Possibility of rotary drum sizing according to production needs;
- Easy access to inner components for cleaning and maintenance;



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

TECNOCEAM S.R.L.
Strada Nazionale Est, 11
43044 Collecchio (PR) - ITALY
Ph. 0521833738 - Fax 0521 834087
info@tecnoceam.com
www.tecnoceam.com

