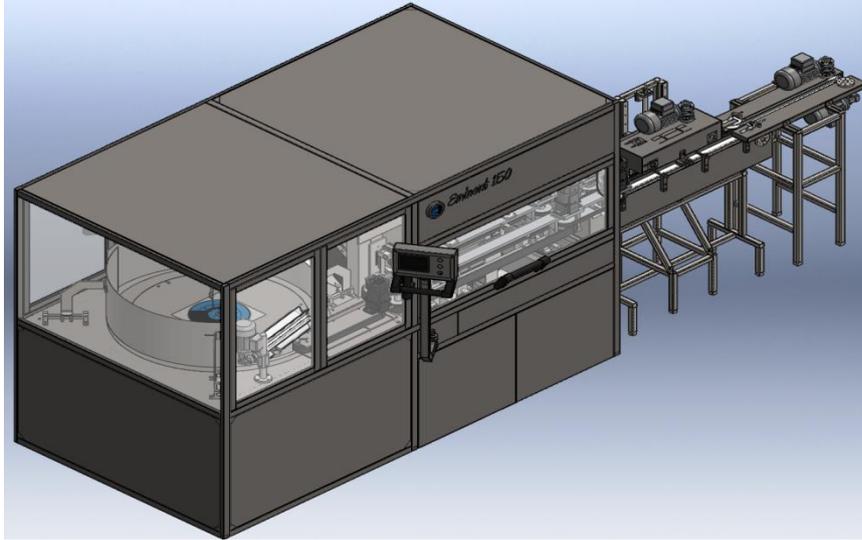




BOTTLE UNSCRAMBLER



Automatic Bottle Unscrambler is the perfect labor-saving component to meet the demands of high-speed bottling lines in a wide range of industries. It is designed to provide a loading solution for empty containers and delivers them to the downstream equipment conveyor in upright condition after orientation

No longer are employees required to manually sort bottles and stand them upright on a conveyor or feed table – an otherwise tedious and time consuming task.

Changeovers from one size bottle to another are as easy as pushing a single button on the control panel. Machine provides bottlers with increased efficiency, savings and productivity by achieving speeds up to 300 bottles-per-minute.

It can work out for any shape like round, oval, square, etc

Why Unscrambler?

- **High Speed** and Fully Automated
- **No changeover parts** at bottle changing which provides minimum time for bottle change
- **Increases efficiency and productivity** for production lines
- It can work out for **any shape** like round, oval, square, etc. It is enable for **unsymmetrical shape** of bottles also.
- Contact parts are **resistant to flaking, chipping, scuffing so will not cause any cosmetic damage** to containers
- **Saves money** through efficient use of personnel
- **Minimal operator training** required
- Designed to accommodate **various bottle shapes and sizes**
- **Fast adjustment** reduce downtime and maximize uptime
- Built to be **reliable, trouble-free and dependable** for years of operation
- INDIAN made-easy access to **spare parts and service assistance**





EMINENT

Description:

This is a perfect product for high speed bottling plants which meets the output of plants with no manpower required.

BU EMINENT is deluxe product for Unscrambling application with all necessary safety standards. Coverings with SS-304 (buffing met finish). Complete automation with PLC and controlled with HMI with branded quality for electric, electronic and pneumatic products which include required IP standards.

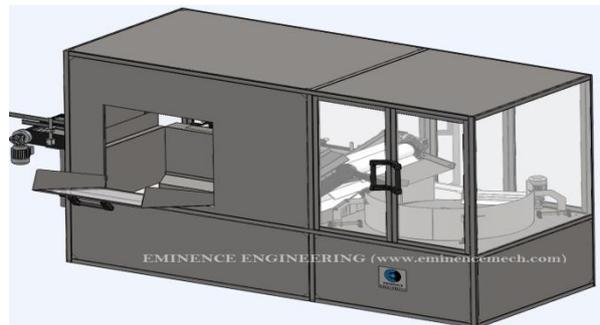
The BU EMINENT's heavy-duty design and durable construction requires minimal maintenance, thus assuring many years of dependable operation. Machine is having a very robust and vibration free body constructed on steel frame. SS clad body, and SS container contact parts ensures durability and GMP compliance. User friendly and variable speed controls for orientor and conveyor, make the bottle orientor easy to adjust and able to handle different bottle sizes and shapes.

Operation:

Empty containers are loaded into the easy access storage conveyor. An elevator lifts the empty containers from the storage and deposits them into the centrifugal feeder called turn table.

In the turn table, containers are moved to the outside of the bowl and drop into the tooling channel.

The tooling channel will ensure the container is in proper position to enter the spacing belt. The spacing belt maintains positive control over the containers and ensures properly timed containers enter the orientation belt work area. Spacing belt will determine the overall speed of the machine.



As the containers enter the orientation area, gripper belts pull the container and hook will raise the container in upright position if the neck is exposed. Bottom exposed containers will pass through and all reach the pivot block then. Pivot block forces the containers to orient upright. Containers then pass from a gripper belts towards exit belt. After the exit belt containers with orientation of the upright are delivered on to the next conveyor.





Technical Specifications:

Model Name	EMINENT 150	EMINENT 300
Output/min*	Up 60 to 150 bottles	Up 170 to 300 bottles
Storage Capacity (Nos*)	2500 bottles at a time.	2500 bottles at a time.
Machine Dimension*	2500mm(L) x 1300mm(W) x 1600mm(H)	2500mm(L) x 1300mm(W) x 1600mm(H)
Height of exit Conveyor**	800 mm to 1000mm	800 mm to 1000mm
Construction**	Complete covering with Physical and Electric safety. SS covering with Doors for easy adjustment. Noise and dust resistant design. Heavy-duty and vibration free body.	Complete covering with Physical and Electric safety. SS covering with Doors for easy adjustment. Noise and dust resistant design. Heavy-duty and vibration free body.
Ionised cleaning	Ionised gas jet is provided to clean the container.	Ionised gas jet is provided to clean the container.
Outlet Conveyor**	Size of conveyor is as per customer requirement and space available at customer site.	Size of conveyor is as per customer requirement and space available at customer site.
Automation	Auto output adjustment as per feeling machine requirement. Auto speed adjustment as per bottle change. Complete automation in through PLC and Operated from HMI.	Auto speed adjustment as per feeling requirement. Auto speed adjustment as per bottle change. Complete automation in through PLC and Operated from HMI

Input Specifications:

Container Specifications	Diameter	20 mm to 100 mm
	Height	30 to 300 mm

* Depends on Container size & container characteristics.

** We can supply as per customer requirements.





Salient Features:

- **No changeover parts** at bottle changing which provides minimum time for bottle change
- Robust and vibration free **construction.**
- Elegant **S.S. buffed matt finish** body.
- **Auto speed adjustment** as per feeling requirement.
- **ACVFD** for Elevator, turn table and orientor.
- User **friendly & maintenance less** design.
- **Low noise level** at higher speed.
- Contact parts are resistant to **flaking, chipping, scuffing so will not cause any cosmetic damage** to containers.
- **PET, HDPE, LDPE, TIN, etc.** can handled.
- Confirms **GMP** and **food standards.**

Optional Features:

- **Low level alarm** in storage of container.
- **Elevator speed** control sensor.
- Acrylic or Polycarbonate **enclosure** in frame.
- Online ionized **air cleaning.**
- **Accumulation conveyor** or **Turn Table** of unscrambled containers.
- **Container counting.**
- Online **Container testing** by **Leak test, weight test,** etc.
- Online **labelling.**

Utility Requirement:

Electrical Supply	3Ø+ Neutral +Earthing
Voltage & frequency	415V / 50 Hz AC
Electrical Load	2.4 KW
Inlet Air Pressure	5 To 6 Bar
Required air Quantity	0.6 CFM

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