



Automatic Linear Air Jet Vacuum Cleaning Machine



The Automatic Linear Air Jet Vacuum Cleaning Machine consists of the main structure, product in-feed screw, in-feed star plate, pneumatic component, washing nozzles, electrical panel, AC drive & motor.

Features

- The machine is manufactured or developed per GMP standards.
- SS square pipe frame structure and doors of SS 304 sheet.
- Rigid vibration-free construction for trouble-free performance.
- Contact parts are made of SS/Delrin food-grade material.
- All moving parts of the machine are covered by safety guards of SS.
- SS slat chain conveyor with geared motor for smooth and jerk-free operation facilitated in the machine.
- Ease of change over with SS knobs or levers for guide track alignment for the entire machines.
- Delrin food grade bottle holding cups will be facilitated in the first bottle-stopping assembly, where 8 consecutive bottles will be inverted in an up-side-down position enabling air jet cleaning operation of the bottles.
- The bottle inverting operation will be controlled for accurate timing and positioning of the air cleaning cycle.
- The air will be blown inside of that consecutive 2/4/6/8/10/12 bottles during the cycle.
- Compressed air filters facilitated in the machine of 5 microns before cleaning.
- The blower facilitated the machine to suck the dust and dirt particles from the bottle.
- The air cleaning operation will be conducted using delrin food-grade cups made respective of the bottleneck which will enable for removal of dust and dirt particles.

- While passing the compressed filtered air, simultaneously vacuum will be created with additional points in the cups using a blower.
- PLC & HMI-based operating and electrical panel facilitated in the machine for ease of operation.
- No external lubrication is required.
- Pressure regulator with pressure switch optionally provided.
- Safety acrylic enclosure is provided as an option.
- Adjustable height of the cleaning unit based on the height of the products.
- User-friendly and very little maintenance required.
- The machine is given with very high velocity of air, effective cleaning of products.
- The machine is given with an inbuilt blower to suck loosened particles from the inner surface of the product.
- Anti-vibration height adjustment legs for the machine are included in the basic machine accessory.
- Most reliable & proven components such as pneumatics & electrical/electronic such as AC Motor, AC Drive, PLC & Touchscreen HMI, Sensors, MCB & relay “CE” certified.

Technical Data

Product Shape & MOC	Round Plastic/ PET / HDPE Bottles and Jars
Product Volume	To be specified by the client
Bottle Size (Ø)	25mm Ø to 90mm Ø
Output Speed	60 to 150 Bottles/Minute
Cleaning Type	Inverted Linear Type
Working Height	875 ± 50 mm
Power Supply	Three Phase/440V AC/ 50Hz
Air Consumption	4 to 6 Kg/Cm2 (Customer's Scope)
Net Weight	550 Kg Approx.
Dimension (LxWxH)	2575 mm (L)x 925 mm (W)x 1080 ± 50 mm H
Type of Cleaning	Ø Filter: Air Filter: 5 microns with auto drain Mist
	Separator: 0.3 microns with auto drain
	Ø Ionized Air: High flow rate ionized air nozzle
Change Parts	Bottle Neck Holding Plates & Cups