



AI-generated conceptual image; final configuration is project-specific.

GMP-ORIENTED CONTAINER CLEANING SYSTEM

Automatic Air Jet Bottle Cleaning Machine

For approved dry glass, PET, HDPE or PP bottles, with automatic conveyor feeding and controlled bottle inversion.

Suitable for: Approved dry glass, PET, HDPE or PP bottles

Machinery supply within India only. Technical review, delivery and support are coordinated from Ahmedabad.

Operating Principle and Selection Basis

The machine inverts bottles, applies filtered compressed air to dislodge loose contamination and uses vacuum extraction to collect removed particles.

Control System: Synchronized bottle sensing, air-pressure monitoring and vacuum-extraction control

Optional Scope: Ionized air, extraction arrangement, bottle inspection and line integration can be selected where required.

Project basis: Final specifications are governed by the approved quotation, machine datasheet, GA drawing and project URS. Published references and configuration/order qualifiers are retained. Illustrated equipment is not a guarantee of the supplied configuration.

Published Technical Specifications

Source: the product page included in this release. Published references are selection aids; the approved quotation and machine datasheet govern the supplied configuration.

Machine, Process and Integration Data

PARAMETER	PUBLISHED / PROJECT DATA
Suitable For	Approved dry glass, PET, HDPE or PP bottles
Working Principle	The machine inverts bottles, applies filtered compressed air to dislodge loose contamination and uses vacuum extraction to collect removed particles.
Infeed / Handling	Automatic conveyor feeding and controlled bottle inversion
Outfeed / Transfer	Cleaned bottles return upright and transfer to the filling line
Machine Construction	GMP-oriented stainless-steel construction as defined in the approved scope
Contact Materials	Stainless-steel machine construction and bottle-contact components are selected for the approved container, compressed-air quality, hygiene requirement and order scope. The cleaning cycle does not use wash water.
Control System	Synchronized bottle sensing, air-pressure monitoring and vacuum-extraction control
Changeover	Settings, guides and format parts matched to approved samples or drawings
Optional Scope	Ionized air, extraction arrangement, bottle inspection and line integration can be selected where required.
Line Integration	Standalone supply or integration with approved upstream and downstream machines

Core Technical and Commercial Data

PARAMETER	PUBLISHED / PROJECT DATA
Model / Series	Published reference. HMAcM-150
Output / Throughput	Published reference. Up to 50 bottles per minute, depending on bottle size.
Accuracy / Acceptance Criterion	Not applicable. This is not a dosing or label-placement function; acceptance is based on stable container handling, the approved filtered-air and vacuum-extraction cleaning cycle and the FAT protocol.
Electrical Power	Published reference. Maximum 3 HP, three-phase, 50 Hz.
Utilities	Published reference. Compressed air: 3-4 kg/cm ² ; 2 HP pump/blower listed for the quoted configuration.
Overall Dimensions (L × W × H)	Overall dimensions are model- and configuration-specific. Final L × W × H is confirmed in the customer-approved GA drawing based on capacity, output, process requirements and site layout before order execution.
Net / Shipping Weight	Configuration-specific. Net and packed shipping weights are stated in the approved datasheet or packing list.
Capacity / Format Range	Published reference. HDPE bottles up to 45 mm diameter × 62 mm height; pneumatic pick-up and inversion of 10 bottles at a time.
Warranty	Published reference. Manufacturing defects in stainless-steel components are covered; normal wear-and-tear parts, consumables and electrical components are excluded. The quotation does not state a warranty duration.
Installation / Commissioning Scope	Published reference. Pre-dispatch operational and maintenance training plus installation at buyer works; buyer arranges food and local transportation for the H M Pharma Machines engineer.