

AUTOMATIC LIQUID DOSING & FILLING SYSTEM

Automatic Bottle Liquid Filling Machine

For approved glass, PET or HDPE bottles and compatible liquid products. Conveyor feeding uses bottle sensing and indexing.



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

Operating principle

Selected dosing technology meters each fill while conveyor sensors position and release containers in synchronization with the filling heads.

Control scope

PLC-based sequence control with no-container/no-fill logic where included.

Machine, process and integration

PARAMETER	PUBLISHED OR PROJECT DATA
Infeed and outfeed	Conveyor feeding with bottle sensing and indexing. Filled bottles transfer to the selected closure machine.
Construction	GMP-oriented stainless-steel construction as defined in the approved scope.
Contact materials	Product-contact materials, seals, tubing, valves and surface finish are matched to the product and cleaning method in the approved scope.
Changeover	Settings, guides and format parts matched to approved samples or drawings.
Optional dosing scope	Gravity, piston, pump, flow meter, peristaltic or weight-based dosing can be selected after product review.
Line integration	Standalone supply or integration with approved upstream and downstream machines.

Published references are selection aids. The HVLF volumetric series and the separate automatic four-head reference are presented on individual pages. Use the values only with their stated reference and conditions.

REFERENCE A - VOLUMETRIC SERIES

HVLF series specifications

Published family data for HVLF-50 / HVLF-100 / HVLF-150 / HVLF-200. Model and head count follow the approved product, container and output requirement.

PARAMETER	HVLF VOLUMETRIC SERIES ONLY
Series models	HVLF-50 / HVLF-100 / HVLF-150 / HVLF-200.
Filling heads	Available with 2 / 4 / 6 / 8 filling heads. Final model and head count follow the approved product, container and output requirement.
Output	20-200 bottles per minute with the selected model and change parts. The contractual rate depends on fill volume, liquid characteristics, container, head count and approved FAT conditions.
Electrical power	415 V AC, three-phase, with 0.50 / 0.75 / 1.0 HP TEFC motor options by model.
Fill range	5-2000 mL with selected change parts.
Container neck	Minimum container neck: 22 mm.
Round containers	Round-container diameter: 28-100 mm.
Flat or square containers	15-100 mm long x 15-50 mm wide.
Container height	Standard container height: 58-240 mm. Other container heights are available on request.
Conveyor dimensions	Conveyor length: 1500-2500 mm; adjustable conveyor height: 850-950 mm.
Weight	Model-specific net and packed shipping weights are confirmed in the approved datasheet and packing list.
Warranty	Warranty is available; duration is not stated. The approved quotation or order confirms commencement, coverage, exclusions and claim terms.

The published source does not map every head count, output or motor option to each model code. The selected model datasheet and approved quotation establish the actual combination.

REFERENCE B - SEPARATE AUTOMATIC FILLER

Automatic four-head reference

The following values come from a separate automatic four-head reference. They are not a universal specification for the HVLF series or every bottle-filling technology.

PARAMETER	SEPARATE FOUR-HEAD REFERENCE
Accuracy	Published value: $\pm 1\%$.
Electrical voltage	220 V.
Overall dimensions	1500 x 800 x 1200 mm (L x W x H).
Weight	500 kg; the source does not identify net versus packed weight.

Confirm the supplied machine

PARAMETER	SELECTED CONFIGURATION / ORDER
Tolerance and FAT	The contractual tolerance and FAT sampling method are confirmed for the approved product, dose, container and operating conditions.
Electrical and layout	The supplied machine's approved electrical load list controls its electrical requirements. Final overall dimensions follow the approved general-arrangement drawing.
Utilities	Required compressed-air pressure and flow, product-feed arrangement, temperature control, and cleaning or CIP interfaces are listed for the selected configuration. The published HVLF reference does not give one universal utility-consumption figure.
Installation and commissioning	Order-specific. Supplier work is limited to installation, commissioning, SAT, operator training and handover items expressly included in the approved quotation. The same document assigns unloading, positioning, utilities to termination points, civil work, trial materials, site access, permits, travel and accommodation responsibilities.

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

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

Machine details: hmparmamachines.com/products/bottle-liquid-filling-machine.html