



VIM 942

Vial Inspection Machine for in-process control of bottelpack® BFS ampoules

For us, there's no doubt about it: you won't find a better, more reliable, or cost-effective solution for packaging liquids and semi-solids than a Rommelag bottelpack system. And if you're looking for premium quality packaging that is always sure to get the job done, we have another trick up our sleeve: our bottelpack range now comes complete with a cap welding machine and various inspection systems. They can either be seamlessly integrated into the production process or installed as outstanding stand-alone solutions in their own right. The systems provide maximum reliability and cost-efficiency throughout the entire manufacturing process.

With a qualified and validated VIM ampoule inspection system, you decide how the BFS ampoule blocks should be inspected. Fully automatic or manual feeding – both are equally possible. The sophisticated inspection system logs the cavity and mould numbers, and measures the opening and separation forces, ampoule net and filled weights, and ampoule wall thickness. VIM can be seamlessly integrated into the production process and checks the quality of your containers. All the in-process measurement protocols are available electronically plotted for trending. Set point deviations can be identified instantly. An optional filling volume feedback system is also available.

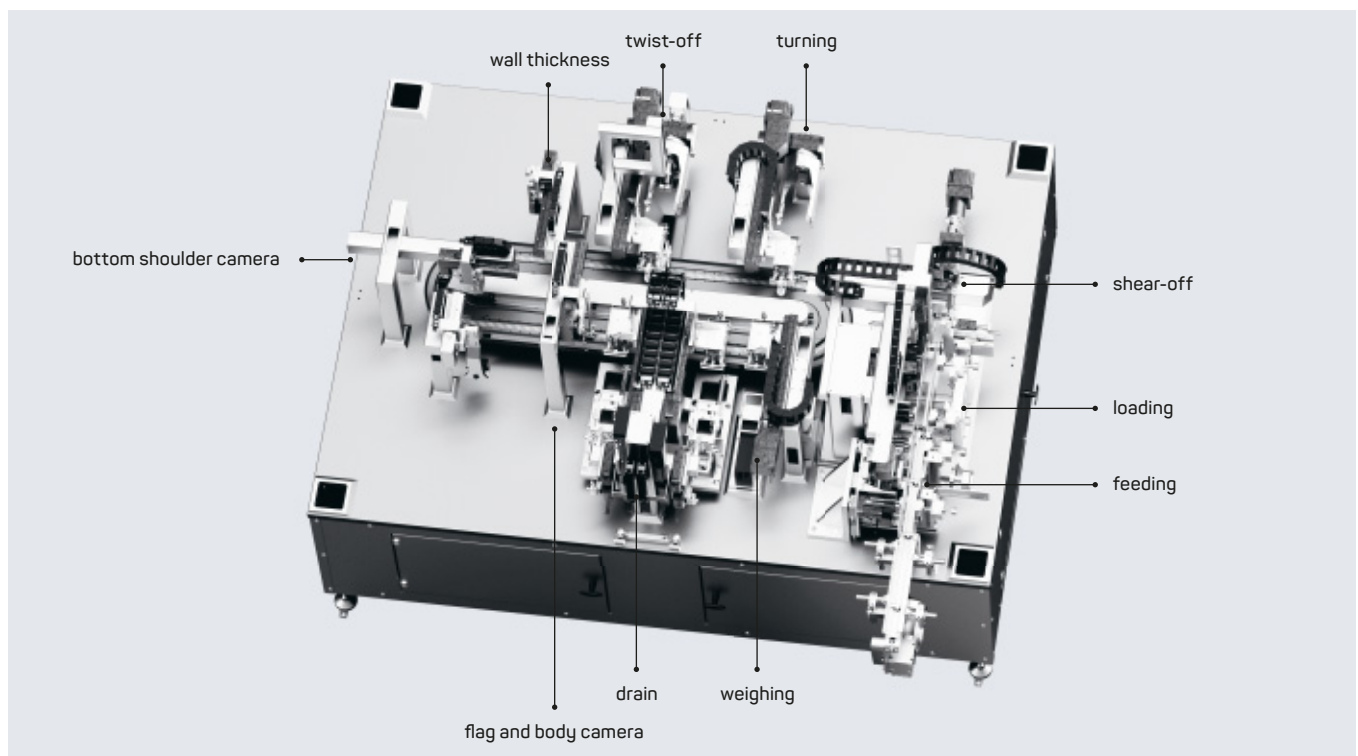
Fully automatic VIM 942

The Vial Inspection Machine is the first fully automatic machine for in-process controls of BFS ampoule blocks from bottelpack machines. The modular design allows customized control of fill weight, ampoule net weight, wall thickness, separation and twist off torque as well as monitoring of all necessary quality aspects related to marking and character verifications or character recognitions. The machine accepts blocks of ampoules or vials any size between 0.5 and 50ml. When a full block is processed the data of all samples will be consolidated and specific information can be sent directly back to the relevant bottelpack machine which either will be adjusted automatically or enable the operator to react at an early stage to prevent production stops and losses. The VIM 942 allows a comprehensive and fast evaluation of container quality. The key features and advantages of the Vial Inspection Machine are reliable data, fast and high-volume testing with proper documentation at low cost compared to manual in-process container controls with a complete user defined documentation.

Technical Data General Machine and Process Parameters

Parameter	Value
Width	Approx. 1,750 mm
Length	Approx. 2,350 mm
Height	Approx. 2,370 mm
Weight	Approx. 1,800 kg
Processing Speed	Up to 300 pcs/h
Product	BFS vials and ampoules
Plastic Type	PP, PE
Supply Voltage	3 x 400 V + neutral + earth 50/60 Hz
Allowable voltage change	VDE-AR-N 4105:2011-08 Paragraph 5.3 and 5.4
Processed container size	0.5 to 50 ml
Compressed Air	Min. 6 bar, max. 10 bar, oilfree
Consumption	Approx. 30 sl/min

For each container many quality aspects are determined or measured. Starting with the separation torque measurement the container passes a load cell for the full container weight followed by a drain station to empty the sample. After this several camera options are available to determine the mould and cavity number and to read lot and expiry data in any possible position or to verify occlusions in the neck. A wall thickness measurement can be added before the turn station starts the second round where the empty weight is taken and all markings and measurements can be verified on the other side of the samples. Finally, the last station determines the twist off torque before the container is ejected.



Technical modifications reserved

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