DIGITAL CONTROL

Inspection Systems
Smart Motion Devices



CLM

Cap & Level Control

CLM

Positioned downstream of the filler and capper, our system checks the fill level and inspects the cap, identifying and signaling any defects. When paired with a rejection system, such as our REJ units, it automatically ejects defective items from the production line.

To ensure the system remains compact and user-friendly, we have developed an advanced multi-camera vision system powered by a high-performance industrial PC. This allows the CMTL to perform a 360° cap inspection—regardless of the material—and quickly detect the product fill level, all within a space-saving structure that is easy to integrate into the production line.

Furthermore, the high modularity of this vision system allows for the integration of various add-on modules, providing even more precise control tailored to specific customer needs. We have also made the system fully interconnected, offering remote assistance via encrypted sessions and enabling seamless integration into an Industry 4.0 environment.

Smart Color Module

With this module is possible to check if the bottles that are passing in the machine have the desired cap color or not.
By doing this control it is easy to detect errors during the bottling, allowing a rapid expulsion of the same from the production line preserving the quality of the final product.



Stelvin Check Module



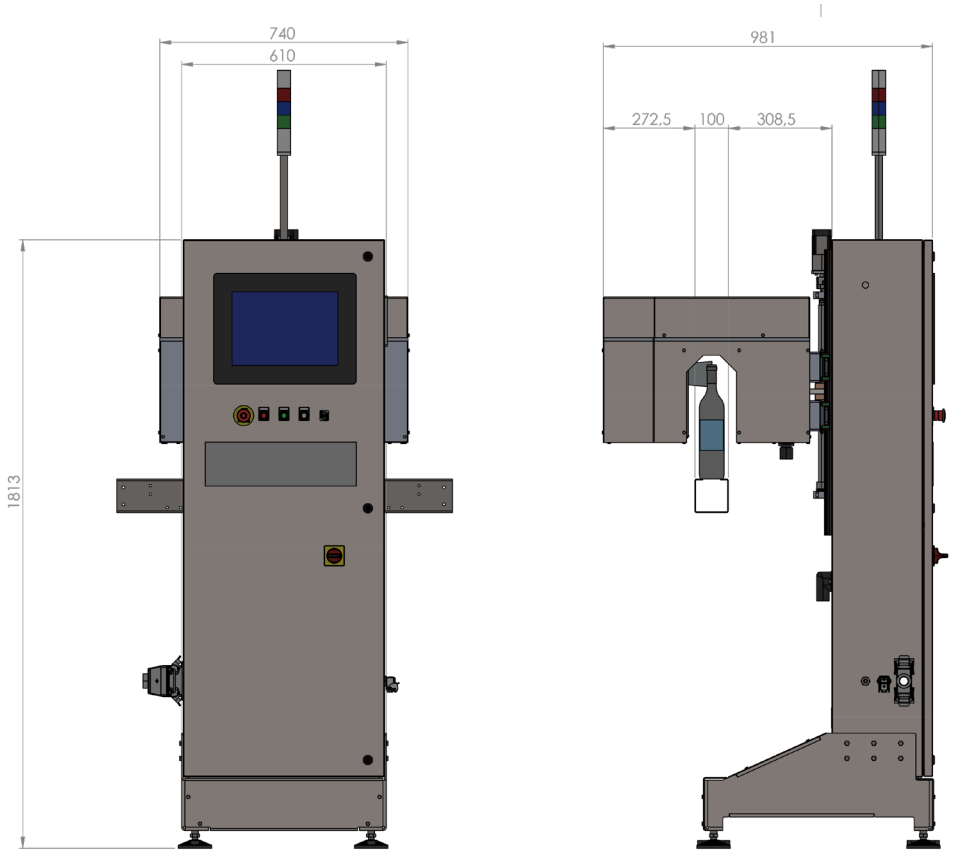
This remote module is installed directly on the capper hopper, where Stelvin caps are picked up and oriented. The system performs a thorough inspection before the caps enter the chute, verifying their positioning, shape, and the presence of any foreign bodies. If an anomaly is detected, a solenoid valve triggers an air jet that immediately ejects the non-compliant cap.

Cap Print Module Check

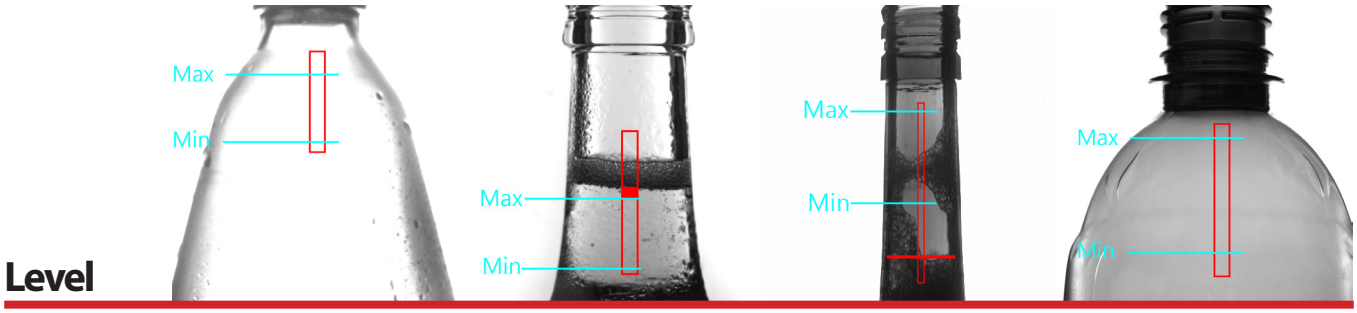
Thanks to this optional module with an additional camera, is possible to check the upper part of the cap, verifying that written and picture are present on in and are in the correct position.
If the system finds some anomalies will recognize it as a discard and send a signal to a rejection system to preserve the high quality of the final product.

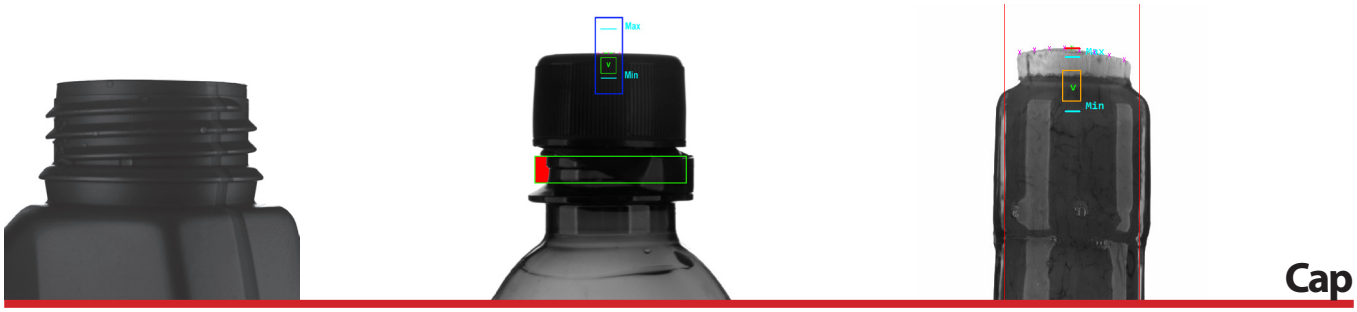


Dimensions (mm)



Identified Rejects







Technical Specifications

Power Supply	230 Vac 50-60 Hz + Ground
Current Absorption	550 W
Protection	according to EC
Control Resolution	from 4 megapixel
Type of control	Monochromatic
Production Capacity	up to 40.000 pieces/h
Weight	100 Kg
Display	TFT 15" Touch Screen
Interface	Ethernet for local connection and internet, OPC-UA, MQTT and Modbus for Industry 4.0
Working Temperature	0 - 45 C°



Discover More

CLM

Social Network

DIGITAL CONTROL S.r.l.
Regione Leiso 113/C, 14050, San Marzano Oliveto, (AT), Italy
Isc. al Reg. Imp. di Asti, C.F. e P.IVA: 01219490057
Tel. +39 0141-856007 Fax. +39 0141-856821
www.digitalcontrol.it email: info@digitalcontrol.it

DIGITAL CONTROL
Inspection Systems
Smart Motion Devices