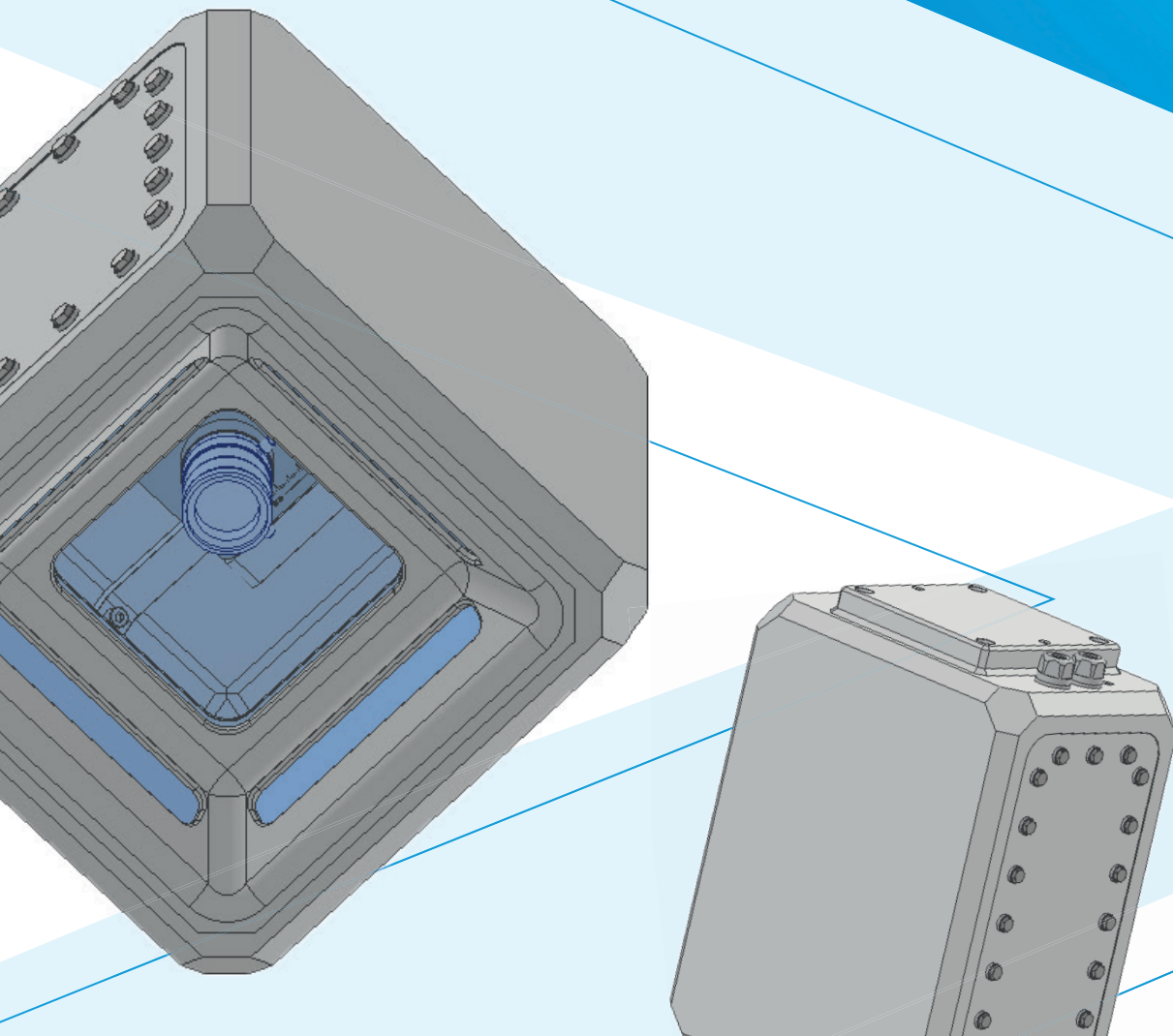**Packaging for Food & Beverage Industry**

CupControl

Yoghurt and dairy products pot inspection

Why CupControl?

Real-time inspection of all relevant properties of thermoforming, filling and sealing processes.

Product safety

Reduces issues with shelf-life and contamination

Quality safety

Standards and specs compliant

Traceability

Identifies batches affected by complaints

Compliance with regulations

Avoids legal disputes

Consumer confidence

Builds strong customer loyalty

Cost efficiency

Avoids product recalls and preserves resources

- ✓ 100% verified product on the shelf
- ✓ Reduces customer complaint ratios
- ✓ Sustainable production through reduction of raw material charge
- ✓ Full control of all process units
- ✓ Basis for predictive maintenance of the filling unit

The solution

100% real-time inspection of all relevant properties of thermoforming, filling and sealing processes

Optical inspection technology by Vision On Line

Vision On Line integrates optical verification technology even into tight available spaces. Our market- and technology know how combined with experience in automatic machine and vision systems design guarantees you an innovative and reliable solution for inspection of your product quality.
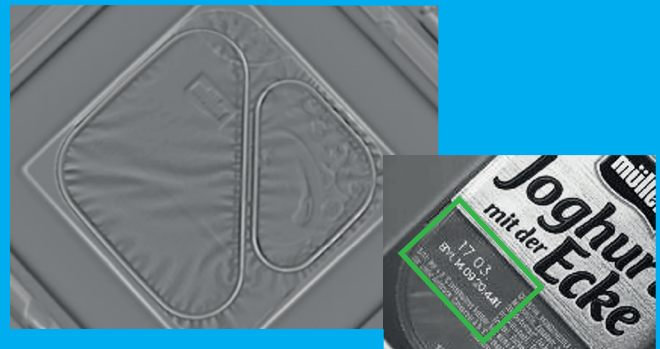
Two CupControl modules.

Pot and label inspection

- Deformation and holes
- Wrong label, turned or non-exitent label
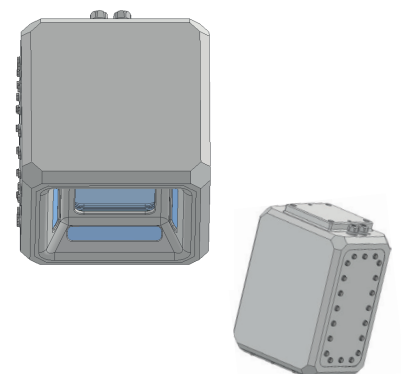- Air pockets under label

Best before date and lid seal inspection

- Best before date wrong, not printed, not readable
- Lid wrong or damaged
- Lid seal damaged or not complete (optical caracteristics)
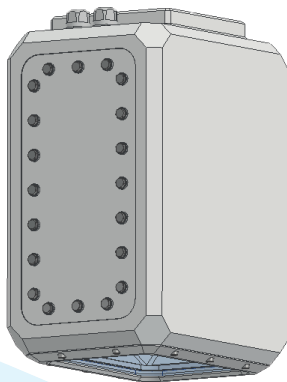
Distinguishing features:

- Stainless steel housing with leak-proof cable glands (min. IP67)
- Industrial camera with highest resolution and speed
- Sequential LED light controller
- Individually adaptable to different products through structured light
- Optical system for circumferential visibility of the pot
- Lid seal inspection detects issues with the filling and sealing process
- Evaluate and visualize data statistically
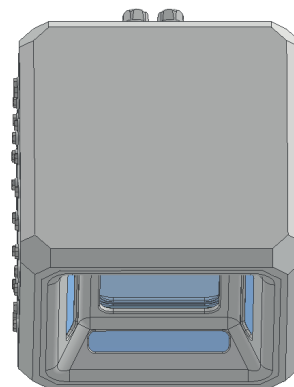
Technical specification

CUP & Label

• Pot inspection
• Label inspection

Best before date & Lid seal

• Best before end date verification
• Lid seal inspection

Technical data:

Model:	CUP & Label	MHD & Lid
Housing material:	Stainless steel	Stainless steel
Protection class:	IP67	IP67
Power supply:	24V, 3A	24V, 3A
Result communication:	Profinet, OPC UA	Profinet, OPC UA
Image data:	GigE-Vision, GenICam	GigE-Vision, GenICam
Graphical User Interface:	HMI on touch panel	HMI on touch panel
Computing platform:	IPC according to performance	IPC according to performance
Operating system:	Windows 10/ Windows 11	Windows 10/ Windows 11
Temperature range:	–10°C bis 60°C (housing)	–10°C bis 60°C (housing)
Scalability:	8 camera modules per IPC	8 camera modules per IPC
Weight:	11kg	12kg
Cleaning:	acc. to food & beverage standards	acc. to food & beverage standards
Cycle time:	aprox. 0,5s per line of 8 modules	aprox. 0,5s per line of 8 modules
Size:	LxWxH 202 x 143 x 271 mm	LxWxH 204 x 204 x 215 mm

more than technology.