KSMVISION

INSPECT 360+ DSC Empty & Closed Can Inspection

FMCG industry

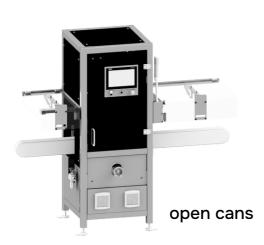


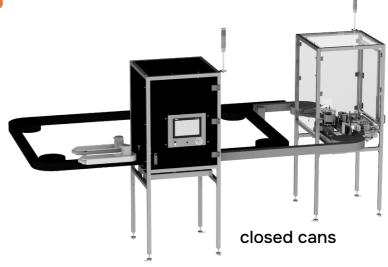


Turnkey
360° vision
control,
without
dead angles

KSM Vision assures accuracy and efficiency with stand-alone systems and modules ready to be integrated with your production lines.

Flexibility of systems allows to adapt them to the needs of different types and hights of products, including:





Inspect 360+ DSC is fully prepared for integration with the factory's IT systems, in terms of automatic order setting, including:

IMPRINTS

REPORT GENERATION

The system ensures full inspection of the can, including:



open can surface, rim and sidewalls:

- mechanical damage dents, bends, microholes, indentations on the rim, flange, sidewall and base, ellipticity, scratches, folds,
- color dark spots, rust,
- **contamination** by foreign bodies or inclusion on the rim, flange, sidewall and base,
- ellipticity, diameter errors, deformations
- closed can top lock presence, deflection, rim and flange tightness, potential blows or sweating,
- (optional) can imprints code, BATCH#, Expiry date, logo.

Flexible & reliable system for different can formats

Flexibility of systems allows to adapt them to the needs of different hights of products, including:

- open and closed
- 2-piece & 3-piece cans
- aluminum & steel cans



Open can defects



rust

rim indentation

sidewall dent

dark spots

incoding

Closed can defects



rim/flange tightness

open/loose cap

potential sweating

potential explosion

top incoding

Open can all-round vision control

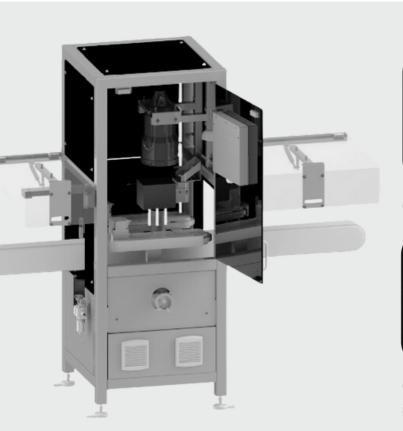
The head with telecentric lens carries out the inspection of the can rim, bottom and sidewalls.

The orthogonal view of the can gets generated, enabling homogeneous control accuracy of the whole can, without perspective error.



Advantages:

- smart design of the head taking up less space on your production line (1 camera with telecentric system)
- homogeneous control accuracy, without perspective error
- efficiency up to 30 000 containers per hour
- easy installation on existing belts





dent on the rim



ellipticity and sidewall defects



rim indentation



foreign body detected

Closed can

double-inspection

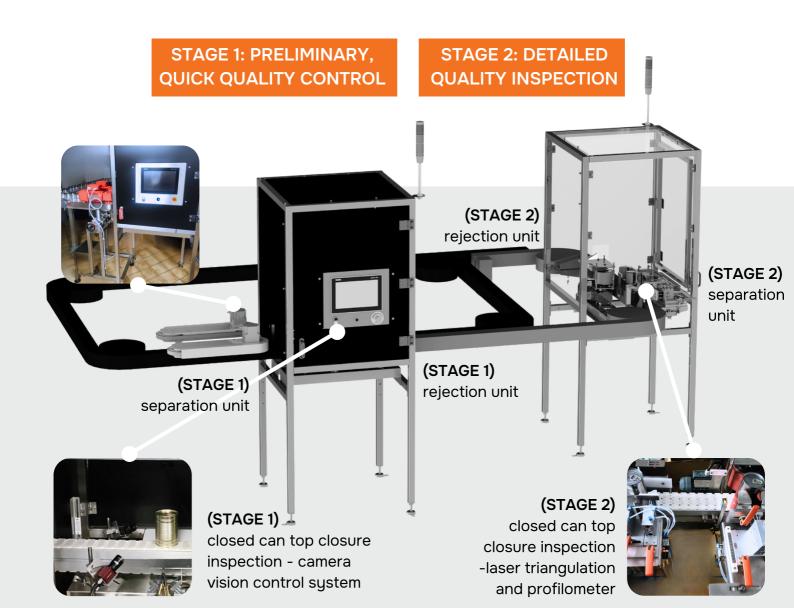
dent on flange



false flange

Advantages:

- preliminary, quick quality control of closed cans with efficiency up to 30 000 items per hour (STAGE 1)
- reduction of incorrect rejections of good cans (false positives) by using the second, more accurate inspection station (STAGE 2)
- blow off function to get rid of water droplets
- robust and resistant design easy in installation on existing belts



What do you gain?

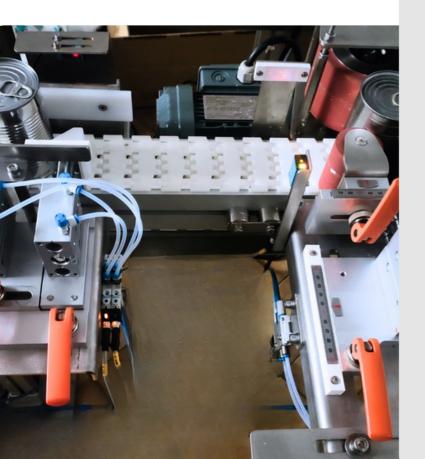


- Compliance with the food industry hygiene standards GUPH and HACCP's central principles
- 100% control of production only flawless products leave your production
- Guarantee of customer safety
- Cost savings by minimizing manual inspection & product waste
- Solution to production labor shortages by transferring by transferring manual inspection to automated machine vision inspection

- Traceability of all products extensive statistical functions
- User-friendly interface enabling quick product adding and creating new order (including reference images)
- Automated reformatting of the system mechanical components for the new cans
- Smart design enabling easy integration with your production line

Options:

- Separation system (wedge conveyor)
- Soft rejection unit (multi-segment rejector)
- Can imprints code, BATCH#, expiry date, logo
- Automatic reformatting of the measuring head in X,Y axis (open cans)
- Defined trend values and set alarms
- Detailed inspection reports providing in-depth information about the delivery quality at any time



Configure Inspect 360+ DSC for adaptation to your production process & line.

With our help customize hardware, software, or analized data.

Configurable interface and database

Based on the production specification system interface can be adjusted, including automatic system set-up with data upload by higher-order system (e.g. MES) and additional data upload by line operator. Data collected by the system can be automatically uploaded to higher-order system.

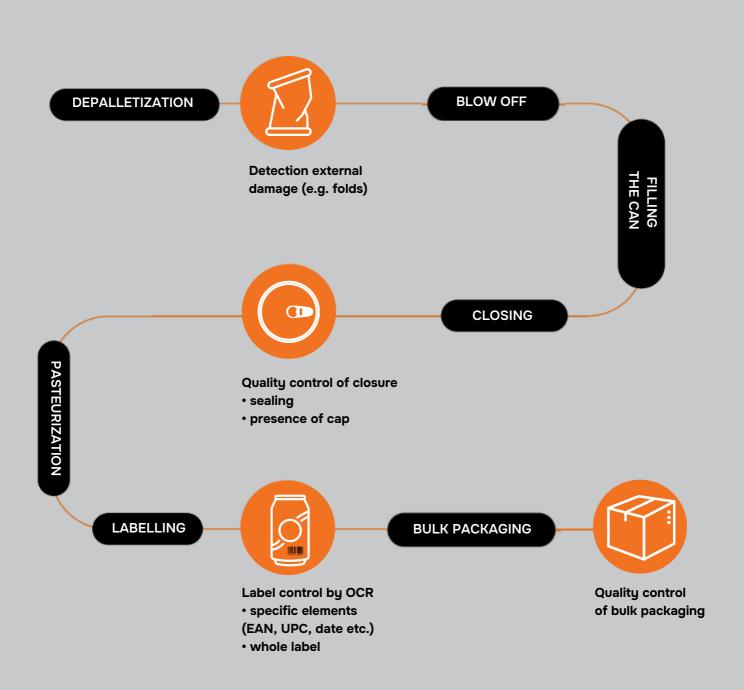
Different products, one software

User-friendly interface enables quick product adding and creating new order (including reference images).

Reformatting is automated with the head height adjustment system, operated via interface.



KSM Vision systems enable all-round vision quality control at every step of your manufacturing process.



At KSM Vision, we've positioned ourselves as a trusted partner of the quality control industry.

Serving a diverse range of sectors

– including woodworking,
pharmaceuticals, cosmetics,
and food — we bring the reliability
and precision you need.

By fusing advanced machine learning algorithms with customized hardware, our solution isn't just an alternative to manual inspection; it's a superior approach.

We have made quality inspection systems:

- compact easy to implement in limited space and on existing production lines,
- Al-powered with neural network architecture enabling adaptations to the changed requirements, or product formats,
- optimized with real-world data from production lines resulting in better accuracy,
- hardware-agnostic offering flexibility in choosing hardware components.



Trusted by
European EIT
Manufacturing and
backed by Intel's
oneAPI for
Startups, our
solution is built
on a foundation
of reliability.

We're ISO9001 compliant, ensuring our standards meet global benchmarks for quality and trust.

Ask for details

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At KSM Vision, we strongly believe in the power of connecting scientific minds to run the constant change.

As an **official partner of Intel's OneAPI** for Startups program we are engaged in the R&D on the neural network potential. **In partnership with EIT Food** - Europe's leading food innovation initiative - we are co-making the food industry more sustainable, healthy and trusted, involving the quality inspection tools.







