AI inspection of pork cutting quality

Check your products from deboning lines with our AI quality inspection for: increased yield, specification compliance and documentation
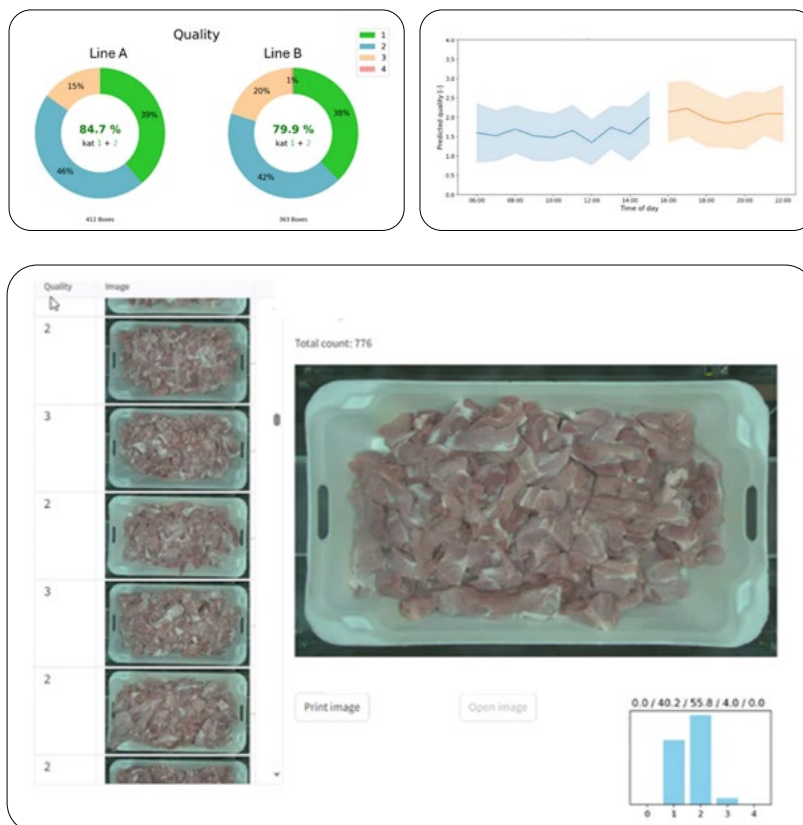
DANISH TECHNOLOGICAL INSTITUTE

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Monitoring of cutting quality is time consuming, and hard to standardize
operation, and can only be done on a fraction of the volume manually. With
digital process monitoring the inspection can cover the full volume and
become almost real-time. This allows faster corrective action, and data driven
analysis for improved performance. Hence comparisons of lines, shifts, pro-
duction hour, day, and sites become an effective tool that uncovers valuable
potential and guides for corrective actions based on solid data. The image
documentation can be used in the continuous dialogue with operators, line
managers, and for yield-control .

The solution is based on image capture of all boxes with products. The camera
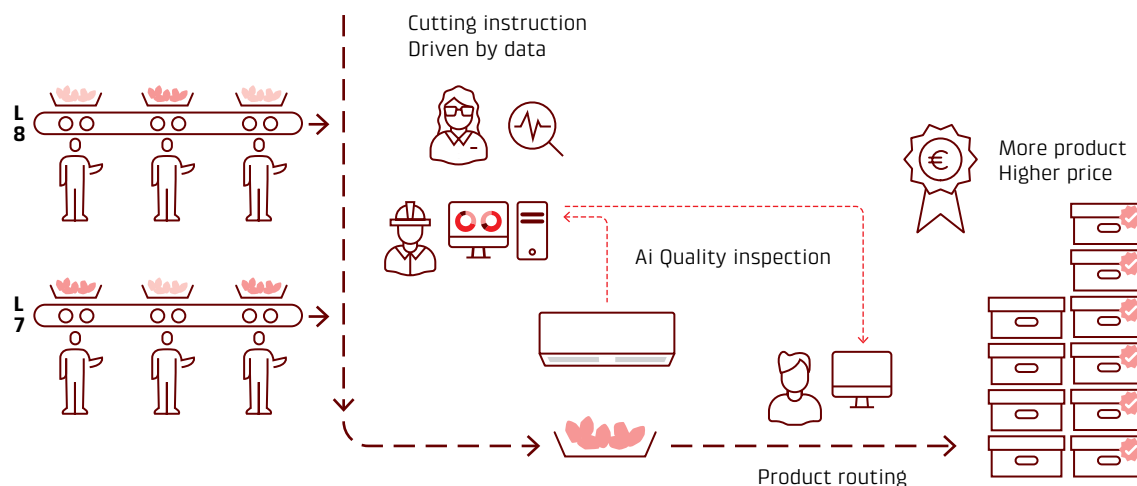is mounted on the lines before or after the ID point where products are routed.

*Dashboard and product library for documentation and analysis, according to product, date,
time, line and quality level*

An AI model is trained to make a consistent quality valuation for the targeted main- or side stream products. Training can be done to the customers' definitions and quality specifications are typically scored in 3-5 levels.

SOLUTION FEATURES

- Advanced image recognition: Scans product in boxes to assess, grade and validate individual product compliance and yield
- Scoring system: Can be trained to customers preferred scoring system. Deviating quality monitored real time for fast correction and continuous value creation, ensuring high-value production is maximized.
- Real-time dashboards: Instant access to performance metrics by line, product, shift, site, or day
- Timestamped image library: Provides traceability for investigating product complaints, mislabeling, mass balance errors, or operator mistakes. Useful for training operators
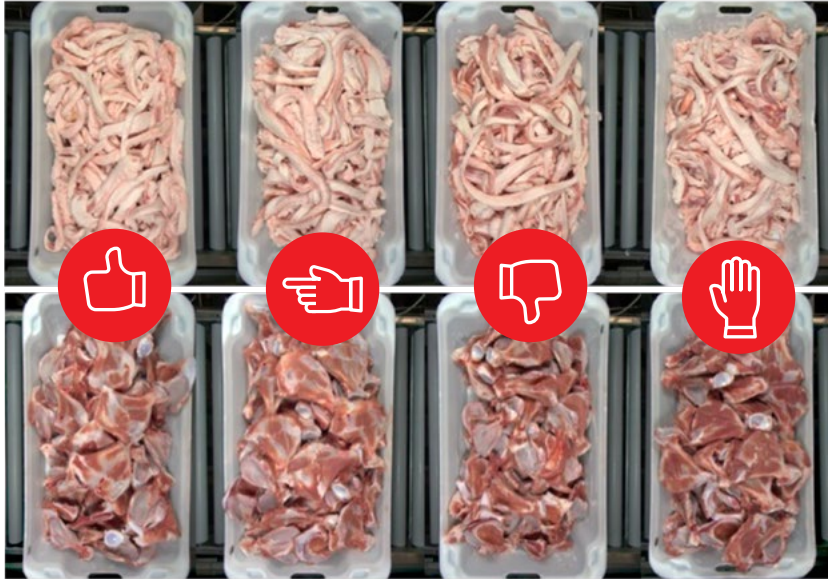- Seamless integration: Flexible integration in the lines and with existing MES structures

AI-POWERED VISION INSPECTION:

- Precision that drives profitability
- Maximize yield and product compliance: Full production check allows to follow target cutting standards closer with fast and data driven corrections. More high value product, less trim-, fat- and bone fraction
- Reduce misclassified or mislabeled products saving costs and time
- Real-Time performance tracking: Maintain focus - Monitor and improve processing value across time, lines, shifts, and sites
- Image library use: Access a date- and time-stamped image library for operator and line-training, error investigations, and mass balance verifications
- Improve consistency: Reduce variability in quality and ensure every product meets the precise specification

DETAILS:

- Cabinet supply: 230V, tray sensor, tray-ID, ethernet
- Stand-alone PC or server solution
- Unit dimension,cm: 30hx90lx30w
- Clearance height unit,cm: 100
- Industry washdown

Food innovation for the future

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