



Neadvance

Neadvance develops intelligent computer vision systems applied to quality control and automation of industrial processes. The knowledge and experience gained in modernising various industrial sectors, medical imaging and smart cities, enable Neadvance to make its solutions available in nine countries and three continents.

Neadvance intelligent systems include 2D and 3D dimensional and position analysis; colour and texture identification, measurement and recognition; character

and pattern reading; defect detection and classification and robot guidance in several industrial processes.

ACTIVITY SECTORS



INDUSTRY



AUTOMOTIVE



AGRIBUSINESS



SMART CITIES



MEDICAL IMAGING

THE ADDED VALUE OF NEADVANCE PRODUCTS

- Flexibility and robustness
- Durability. The products meet the customers' needs and evolve according to new challenges presented
- Possibility of acquiring more knowledge and control over the production processes, improving relevant actions
- Proprietary application library
- Constantly developing software with the latest innovations in the sector
- Strong connection with knowledge clusters
- Sound knowledge of production / shop floor processes
- Compatibility with multiple hardware of different technologies
- With a single Neadvance solution it is possible to integrate and coordinate several functions simultaneously, overcoming time and space constraints in the optimisation of production processes.

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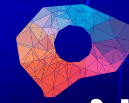
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KEG LEAKAGE DETECTION SYSTEM



Neadvance

The beverage filling industries, in particular the beer industry, use kegs with different capacities to store their products.

Since this is reusable packaging, it is necessary to ensure that the connection systems of the kegs are free from leakage, in order to maintain the quality of the product until it reaches the client.

Therefore, leakage inspection in the filling line is crucial, but it does carry significant technical difficulties. The traditional system – the weighing of the kegs and the inference of the liquid level – is far from being efficient.

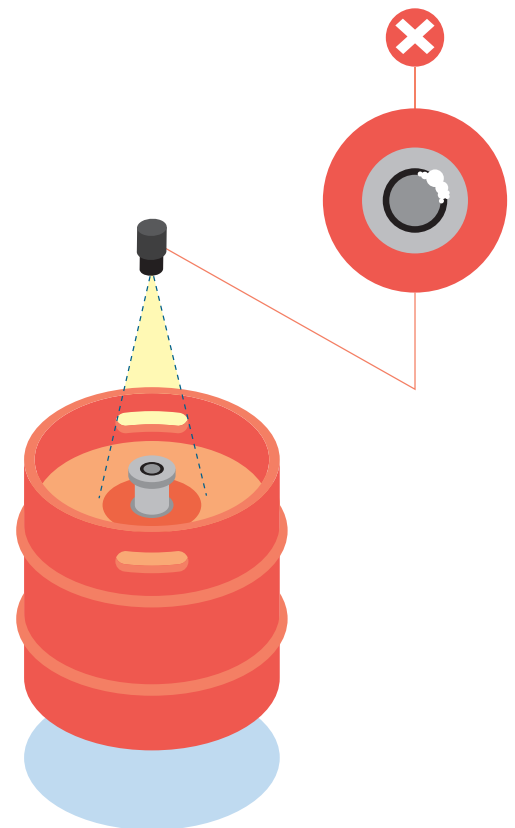
DESCRIPTION

The system inspects the beer kegs through machine vision technologies using innovative algorithms of image processing and analysis. It assesses a set of features on the image and determines if the coupler is leaking and/or has damaged sealants.

In the case of there being any non-conformities the system will remove the keg and separate it from the remaining production.

FEATURES

- Cycle time: 2 s per barrel
- System optical resolution: 5M Pixels
- Measurement resolution: 50 μm / pixel
- Inspection Area (LxW): 125x100mm
- System dimension (LxWxH): 400X400x400 mm
- System integrated in the production process, saving space and transport time
- It processes beer kegs with different colours and different types of couplers
- Integrated database; generation of detailed inspection reports
- Counting of defective/flawless beer kegs



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