

An AI-based inspection system can reliably detect complex situations and geometries regardless of the number, size, shape, material and position of the components - even under difficult viewing angles & lighting situations.

During the analysis of the product quality, the condition of the production machines is also checked. This allows an early reaction to malfunctions.

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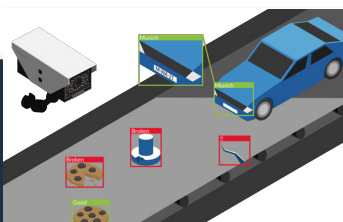
Quality Control

Powered by AI Image Processing.

broken

Areas of Application

Artificial Intelligence as a Tool for Quality Control



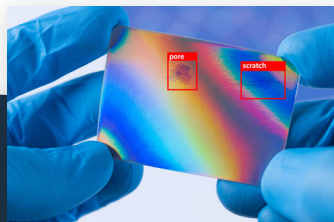
Defect Detection

Even very similar objects are clearly distinguished.



Object Detection

Classification into different categories. Even very similar objects are clearly distinguished.



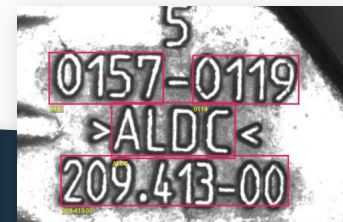
Surface Inspection

e.g. pores, inclusions, scratches, paint runners, orange peel skin.



Color Detection

e.g. color values, color gradients, discolorations, minimal deviations from the target value.



Text Recognition

Independent of language & font. For example labels, engravings, product marking.



Completeness Check

e.g. missing, surplus, wrong components or objects.

Advantages of Wahtari AI Systems

AI Model | AI Software | AI Hardware



Complex Tasks

We solve tasks that cannot be managed in simple ways.



High Precision

Even minimal production errors are reliably detected.



Easy Adaptation

Hassle-free training of new products & criteria.



Extreme Performant

Detection of production errors in real-time.



Seamless Integration

Easy integration with third-party applications via API.



Conserve Resources

Fewer rejects through precise localization and identification of the defect.

Modern AI systems form an essential basis for the automation of visual quality control. Using deep neural networks, they can be trained to recognize complex patterns and microscopic material defects in order to identify and isolate damaged products.

The knowledge gained from the analysis of product quality can also be used to draw conclusions about the current state of production machines and processes. **Artificial intelligence therefore not only ensures that the products are completed flawlessly but also that wear and tear and malfunctions of the machines are detected during operation. In this way,** it is possible

to react in real time to quality losses in order to minimize breakdowns and rejects.

In order to exploit the full potential of AI technology and to be able to react immediately to the collected data, real-time data processing on AI hardware is useful. Wahtari offers 100% AI edge solutions.

AI Partner Wahtari

We provide you with ready-to-use AI systems that are tailored to the real conditions of your company. Our optimized pipeline enables us to realize projects for any budget.

We support your business to benefit from the opportunities of cutting-edge technology and setting yourself apart from your competitors.

About Wahtari

- Experts for AI based image recognition
- Experience in many different industries
- Always the latest technologies (updatable)
- Hardware and software from one source