

Efficient Parts Inspection in Goods Receiving

Automated bulk parts inspection is revolutionizing incoming goods inspection for screws, nuts, washers, and other assembly components. Our solution combines advanced machine vision, intelligent evaluation algorithms, and a user-friendly interface to create a powerful system that significantly accelerates inspection processes while sustainably improving quality.

The process is deliberately simple: the operator selects the corresponding delivery item, places a component on the inspection station, and starts the inspection at the touch of a button. A high-resolution camera, precisely tuned lighting, and intelligent software automatically inspect all relevant dimensions and characteristics. The captured data is compared in real time with the stored delivery note information. The result is a fast, reliable, and, above all, reproducible inspection process—independent of the operator's experience or daily performance.



Automation significantly reduces the workload in goods receiving. Inspection times are shortened considerably, allowing incoming goods to be released and put into storage more quickly. At the same time, the system reduces typical sources of error associated with manual measurements and prevents incorrect storage assignments and costly complaints. Inspection quality remains consistently high while reducing dependence on specially trained inspection personnel.

The AIT solution therefore creates the ideal combination of efficiency, process reliability, and technological innovation. Companies benefit from transparent and traceable inspection results as well as a significantly optimized storage process.

Place the component, inspect it, release it in seconds instead of minutes!

Customer Testimonial:

„Automated inspection has made our storage process significantly more efficient. Particularly during holiday periods and staff absences, inspection errors have become extremely rare. The system ensures consistently high quality, regardless of the operator.“

Technical Highlights & Benefits

- **Incoming Goods Inspection:**
 - Automated inspection of incoming bulk parts based on delivery note data
- **Semi-Automated Inspection Process:**
 - The operator places the component; the inspection is performed fully automatically
- **Reduction of Incorrect Assignments:**
 - Prevents incorrect storage location assignments and faulty deliveries
- **Modular, Expandable System:**
 - Multiple inspection stations or camera systems can be easily integrated
- **Feature and Dimensional Inspection:**
 - Inspection of diameter, length, geometry, and DIN-relevant characteristics
- **AI-Based Variant Recognition:**
 - New component variants can be easily trained, even without defining inspection rules
- **Time and Cost Savings:**
 - No manual measuring or visual inspection required
- **Easy Integration:**
 - Connection to existing workstations and warehouse management systems

Wir show you how to increase quality while reducing costs.

Request your non-obligation quote now: sales@ait.de