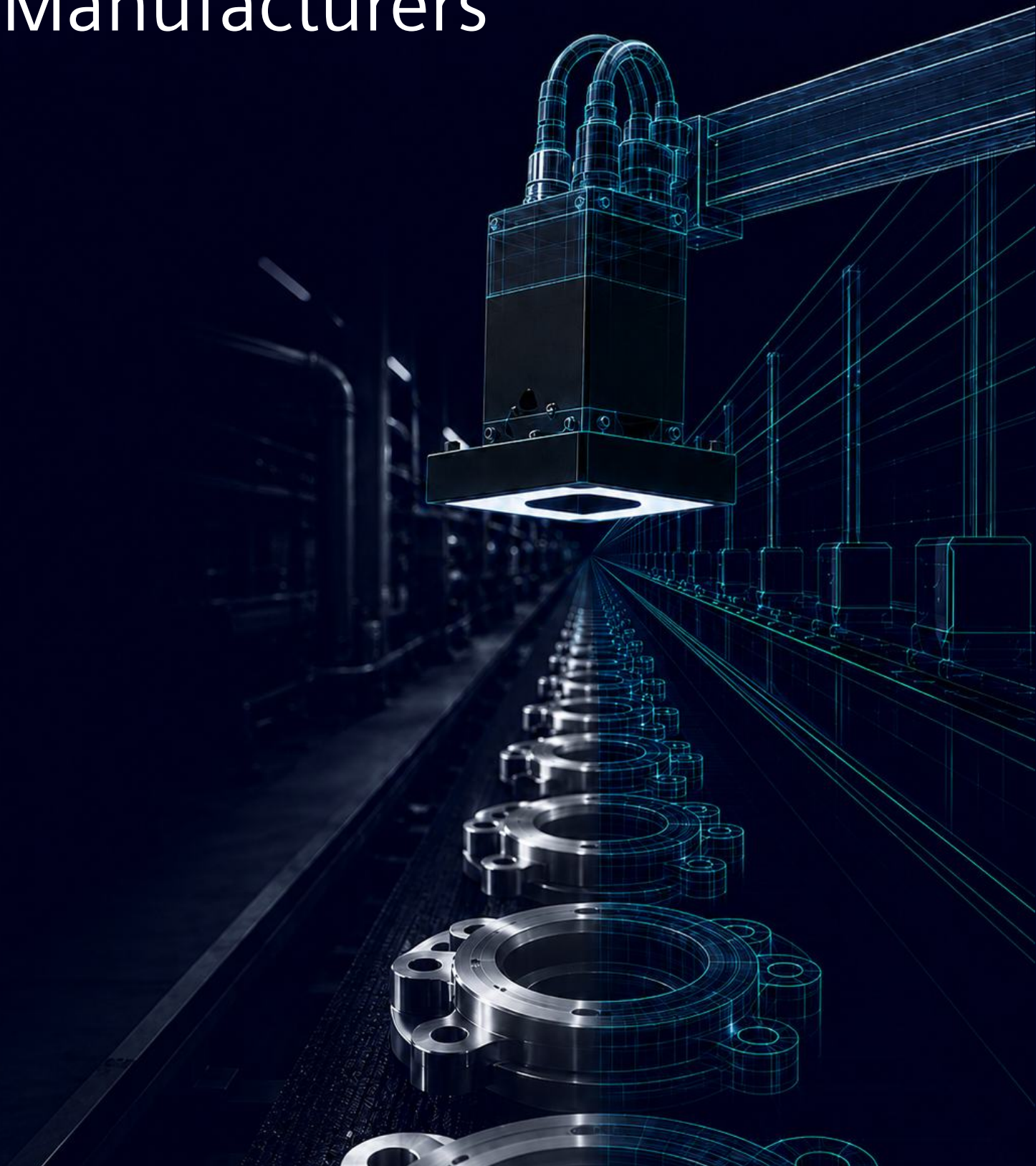


SIEMENS

Why Inspekto?

A Quick Guide for Manufacturers



You've probably experienced some of these challenges:

Varied Raw Material Batches from different suppliers

Can lead to inconsistencies in product quality

Process & Equipment Inconsistencies

Incorrect machine settings, tool wear, and environmental variability might cause inaccuracies.

Lack of Standardization (SOPs & Specifications)

May result in errors, rework, and unpredictable output.

Human Factors & Assembly Errors

Part complexity, inadequate training or even fatigue and manual mistakes during assembly can contribute to defects that might be mistakenly overlooked.

Quality Sampling & Periodic Monitoring

Siloed quality systems, insufficient coverage, and lack of real-time monitoring allow defects, scrap, and customer issues to persist.

Many manufacturers face the same quality challenges, we did too:

- Manual inspection inconsistent across shifts.
- Search for a suitable automated quality inspection system is a project in itself.
- If the solution is per use case, such as with traditional vision projects, they're limited, take too long and need specialist support which adds unknown costs.
- False alarms create operator frustration.
- Quality issues are detected too late, after value has already been added and demand rework.

Why companies adopt Inspekto, including in our own facilities:

Inspekto is designed to reduce these pains with practical AI-based pass/fail visual inspection that can be deployed quickly at line level. More and more companies are now adopting AI-based visual quality inspection asset which is adaptive and widely applicable in order to cover most visual inspection needs. Advanced quality inspection facilitates their brand equity and it can serve to strengthen your customer trust and loyalty. When you know defects are spotted, even unforeseen ones – you can deliver with peace of mind.

It also affects the bottom line. How ?

- Less defects equal more usable parts, higher throughput – more parts to use and sell. It's as simple as that – first and foremost.
- Quality excellence is a magnet for more business. Whether you are a brand, sub-contractor or OEM – you've built your business on unique value and your quality is your reason to be. Our "raison d'être" is to make sure your manufactured goods and assembled parts are as you planned them to be. Inspekto flags defects it spots and immediately reports them so that you can control your supply chain better.



What do you need ? Really this is achievable in a few steps:



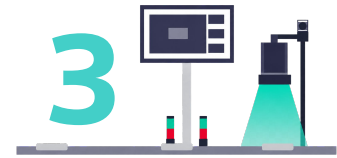
Unbox

Complete system is delivered
Hardware & AI-based Software



Mount & Plug

In-line or stand alone,
It's easy to commission*



Start inspection

With only 20 good parts
you can inspect automatically

*Can seamlessly integrate via PLC with TIA Portal

Where Inspekto gives the strongest benefit

- Fast setup and faster fit/no-fit decisions at the checkpoint level. Same day Go/No GO.
- Strong performance for defect detection and assembly verification tasks.
- Lower dependency on external experts for daily operation – system can be operated by your team.
- You can use and reuse for diverse use cases whenever needed.

Typical business outcomes manufacturers can expect

- Increased reliability and better outgoing quality consistency.
- Faster operator feedback loops and quicker containment.
- Reduced inspection bottlenecks in practical pass/fail use cases.
- More predictable quality automation roadmap vs custom one-off projects - easier cost projections.

Contact us
for your use cases

www.siemens.com/inspekto

Before you buy: 5-point fit check

1. Is your task pass/fail visual inspection, not exact dimensional measurement?
2. Is the defect-relevant area clearly visible from line-of-sight at the checkpoint?
3. Can part presentation be made repeatable (fixturing, positioning, stable station conditions)?
4. Have you included normal OK-part variation in early validation samples (plus NOK samples if available)?
5. Is ownership clear for false positive/false negative review and profile updates?

Score your result

1. 4-5 Yes: Strong candidate for rapid fit/no-fit validation.
2. 3 Yes: Potential fit with checkpoint scoping and setup refinement.
3. 0-2 Yes: Reframe the checkpoint first, then reassess.

Validate first when

1. Features are recessed, occluded, or interior.
2. Transparent/translucent materials are involved.
3. Very small critical features are near practical imaging limits.
4. Moving-part trigger/station behavior is not yet defined.
5. Color is the primary acceptance criterion.

Start small and evidence-driven:

1. Pick one high-impact checkpoint.
2. Validate on real parts with real station constraints.
3. Track KPI performance before wider rollout.

Invited to Book a fit/no-fit validation with your real parts to get a clear next step: proceed, re-scope or stop early.

Bottom line

Inspekto is an easy step to automate your quality inspection and can detect unforeseen defects. It delivers value quickly with applicability to a wide variety of use cases.

Why upgrade your quality processes?

- Eliminate inaccurate inspections and inconsistencies.
- Reduce scrap and rework.
- Boost efficiency, throughput, and overall value.

Transform your quality control with AI Vision:

Siemens Industrial AI provides robust, AI-based quality inspection solutions. Drive predictive insights and real-time, automated decision-making to ensure consistent quality and deliver excellent products. Your reputation is our priority.

Ready to see how simple and worthwhile this leap can be?

Contact us for more details: www.siemens.com/inspekto

Use Cases

Electronics: AI-based inspection ensures consistent quality

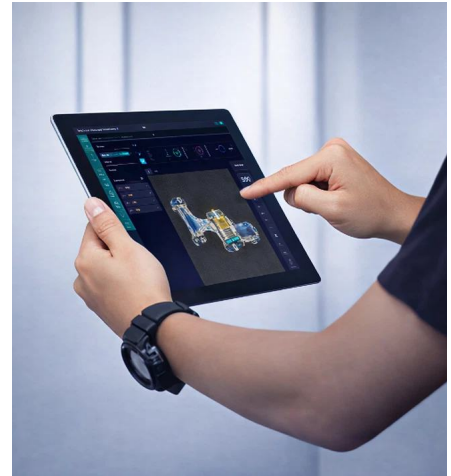
MTCON aimed for an automated 100% inspection of electronic parts to ensure their products' high quality and performance. Offering a wide variety of components, they needed an efficient, standardized inspection system. In order to strengthen their quality inspection team, MTCON decided to introduce AI. The AI-powered Inspekto system was implemented into the production line to inspect connectors with delicate blade contacts and detect deviations and bent parts. Some parts combined materials such as plastic and metal and inspection and inspection setup was done quickly and seamlessly. MTCON and their customers now benefit from consistently tested safety and the highest reliability, as well as fast delivery.

Consumer Goods : AI-driven quality inspection reduced scrap levels

BSH Start Up Kitchen – part of BSH Haushaltsgeräte, the largest manufacturer of home appliances in Europe – wanted to increase the accuracy and efficiency of batch inspection processes. Their objective was to spot defects early on in order to help meet consumer needs with high-quality appliances, reduce material waste, cut costs, and benefiting the environment.

Convinced by the user-friendliness and the accuracy of the technology, BSH implemented in its Traunreut plant the Inspekto system: The system inspects the metal walls of BSH's ovens straight from the press. By identifying the defects at this early stage, faulty oven wall components can be easily repaired or recycled. That's much easier and more sustainable than to have to scrap or disassemble the entire oven once the product is already fully assembled.

The result: BSH achieved a sustainable waste decrease by 90%. Because of this success, Inspekto was implemented in more use cases than originally planned.^{1,2}



Plastic injection molding : Reliable, accurate inspection early on, directly in production

The objective for sinit kunststoffwerke was to achieve a higher final product quality by increasing the precision and reliability of quality monitoring directly within the production process, enabling early detection of defects and consistent quality assurance. In injection molding, parts may show quality deviations such as short shots, ie. incomplete filling or overmolding and the challenge was to reliably detect these defects early on, during the production process in order to ensure consistently high product quality.³

¹ BSH use case: <https://references.siemens.com/en/reference/bsh-start-up-kitchen?id=RMW00391>

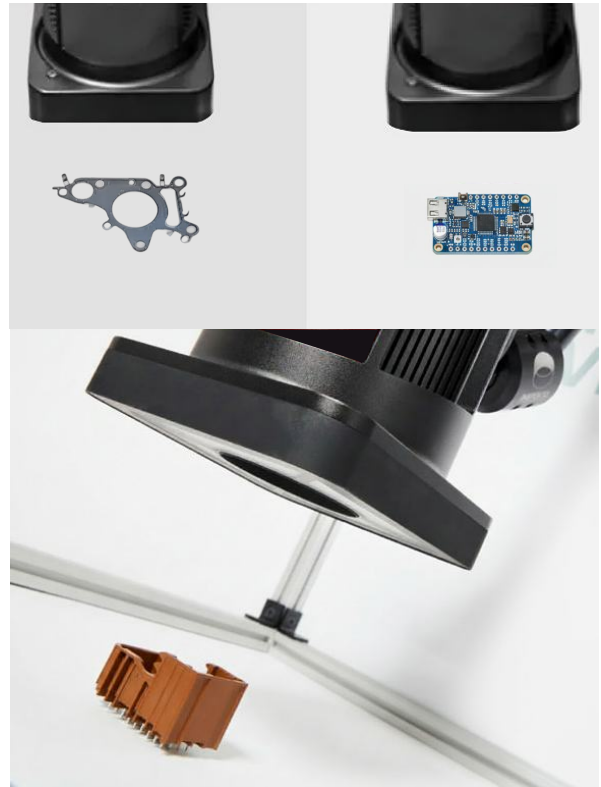
² Article by BSH Home Appliances Group https://stories.bsh-group.com/en_DE/article/how-inspekto-has-reduced-waste-by-more-than-90-at-the-traunreut-plant-44234

³ Project Lead at sinit kunststoffwerke

Automotive : In-line QA inspection of injection-molded Automotive parts

Schmitt + Meissner searched for a quick, reliable way to automate quality assurance and reduce errors. With Inspekto AI-based machine vision system, Schmitt + Meissner now owned a flexible solution that could be quickly integrated into existing machines. Inspekto provided a solution that can be deployed quickly and requires no complex programming.

Light panels are inspected after the injection molding process. Inspekto streamlined QA and inspects 100% of the parts in-line. The system automatically learns the relevant quality characteristics and adapts flexibly to new products. No prior knowledge of image processing or AI is required, yet the customer benefits automatic optimization without the need for external specialists. An automated process and quick ROI has major impact.



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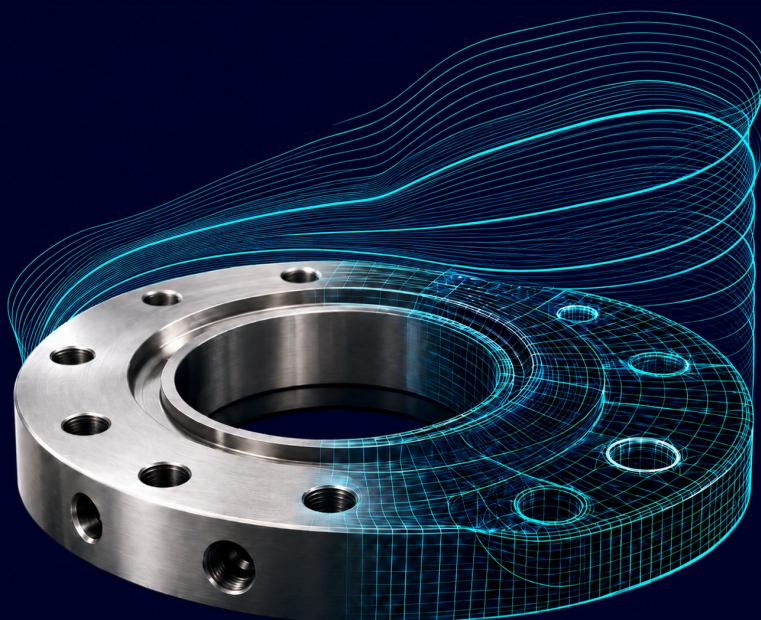
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