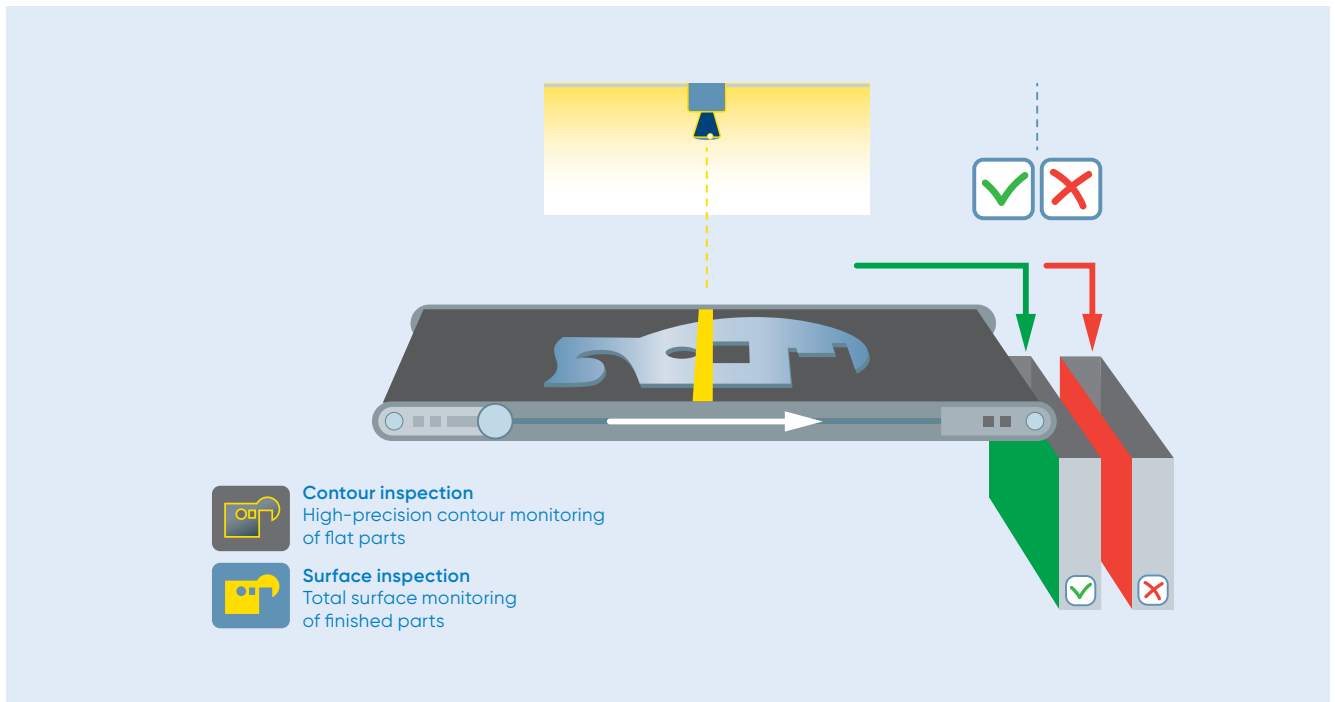




# **VISUAL QUALITY INSPECTION (VQI)**

**SMART QUALITY ASSURANCE THROUGHOUT  
THE PRODUCTION PROCESS.**

# The effortless way to smart quality control



Visual Quality Inspection is an adaptable add-on that provides security for your quality control – camera-based and smart.

## RELIABLE MONITORING SOLUTION WITH THE CAMERA BASED SYSTEM-SOLUTION

The system detects defective components already during production and separates them out. The system uses error-free parts as template, which are scanned by the system with just a small number of mouse-clicks. This eliminated the need for time-consuming marking of part contours and annotation of defects. This intuitive operation makes VQI a flexible add-on for production systems of all manufacturers and types that can be used variably. This ensures that only defect-free components are delivered to the customer – which means no complaints, saves costs and increases customer satisfaction.

## CAMERA-BASED INTERMEDIATE AND FINAL INSPECTION

The Visual Quality Inspection can be integrated into almost every process step of your production as a reliable inspection tool for quality features. From flat blank to the finished part – including all intermediate steps – everything is imaginable. Components can be inspected completely and selectively for key characteristics. The integration capability depends

heavily on repeatable test conditions and that the relevant characteristics being within the systems field of vision. This field of vision can be formed by up to eight cameras. A standstill of the parts is not a necessity for scanning of the components. Depending on the requirements, it is also possible to detect certain characteristics while the part is moving, i.e. "on-the-fly".

## INTEGRATION IN YOUR MACHINE

The Virtual Quality Inspection System can be installed on machines from all manufacturer and of all types. We work with you to develop the inspection concept for optimum design and integration into your machine. This individual concept can be validated under real conditions as part of a "Proof of concept" setup at your press shop.

## ADVANTAGES:

- Flexible system setup, tailored to your need
- Quick and easy setup for new parts by plant operator
- Combination with further products from Metris (e.g. the preventive die protection – Visual Die Protection)
- Continuous traceability with the Analyzer





The Visual Die Protection Analyzer provides detailed insight into error history, even remotely.

## MORE INSIGHTS AND ROOT CAUSE ANALYSIS WITH THE ANALYZIER

For a complete package the analyzer provides convenient access to historical image series and data for detailed analysis for your production process. It thus ensures continuous traceable documentation of your component quality.

The Visual Quality Inspection Analyzer displays not only the images but also the associated data. By looking at the data series over a day or a shift, it is possible to quickly find the relevant points in time when process fluctuation or plan stops occurred. By selecting relevant time points, the system displays the decisive images to analyze the cause of the stops. From this, countermeasures can be initiated to prevent future plant stops.

## COMBINATION WITH FURTHER METRIS PRODUCTS:

### Track and Trace

Parts tracking from start to finish: With Track and Trace from Metris, you can uniquely identify the parts you produce, giving you the ability to track, trace, and eliminate errors.

### Visual Die Protection

Visual Die Protection detects potential sources of die damage in advance, allowing you to take timely corrective action to prevent damage and failures from occurring.

## THE METRIS COMPETENCE

ANDRITZ offers a broad and constantly growing range of innovative products and services in the industrial digitalization sector under the brand name Metris, helping customers to

- enhance plant efficiency and profitability
- optimize the use of resources
- achieve constant and highest product quality
- reduce production downtime
- maximize user-friendliness

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