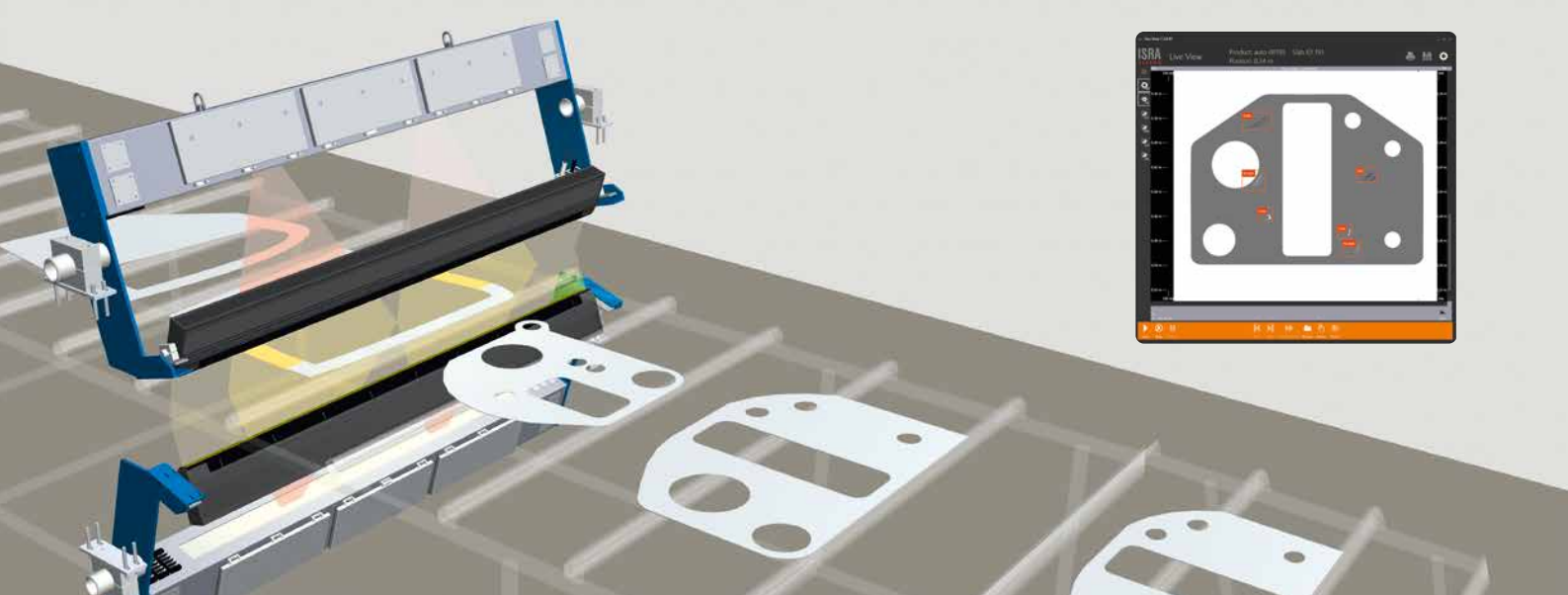


## BLANKING MASTER – enabling automatic defect detection on blanks of any shape



### Ensuring reliable satisfaction of automotive customers – BLANKING MASTER enables 100% inspection of Blanks

Sourcing raw coils from various suppliers can result in different material quality levels used for the blanks. The demanding process of blanking itself can also lead to defects (e.g. scratches, rolling marks, scoring) on stamped parts. The challenge for inspection lies in recognizing the shape of the blanks. In the past, the lack of information about the geometry of objects made the detection of surface defects impossible. With Blanking Master, ISRA VISION offers the solution. The illumination from two sides, transmission for contour shape recognition and reflection for defect recognition, enables defect detection just within the mold. An initially preconfigured and then adaptive software reliably detects and classifies all defects, followed by data-based sorting for further processing.

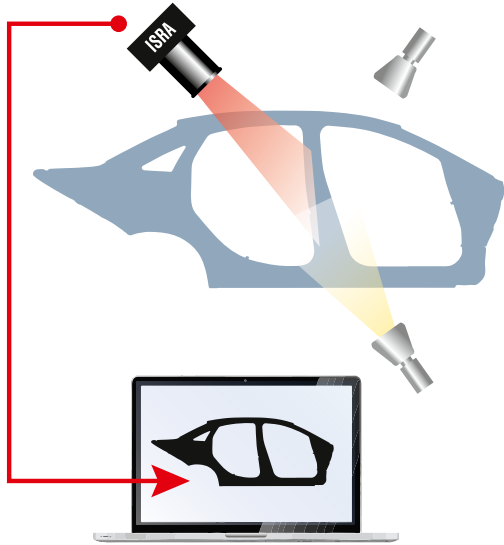
### Application

- In-line Surface Inspection for Metal-Blanks
- Blanks of different shapes can be inspected without new setup

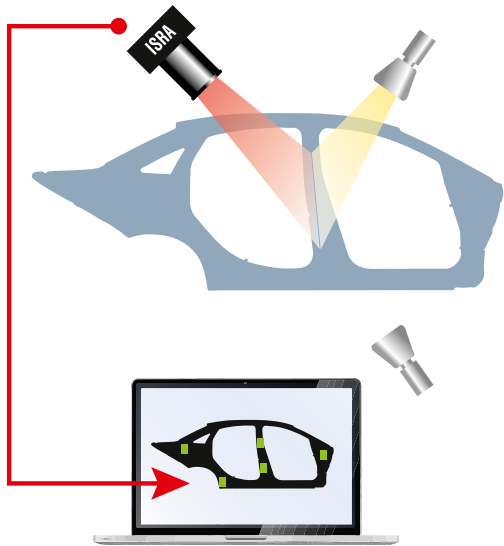
### Benefits

- Enables reliable surface inspection in blanking lines
- Ensures highest delivery quality e.g. for the automotive industry, on the basis of reliable defect detection
- Avoids security downgrading
- Best detection performance with excellent image processing performance
- Return-On-Investment is achieved after only a few months due to quick system set-up
- Yield optimization is realized through precise process and product analysis (Interactive live view / Quality statistics)

## Function of BLANKING MASTER



The shape of each individual object to be inspected is captured by transmission.



The system knows the shape and reliably detects 100% of all surface defects on the metal.



Blanks of any kind can be reliably inspected by the BLANKING MASTER



In subsequent process steps, e.g. automotive parts are manufactured from the stamped parts.

## Optional performance Enhancement with Expert Modules: *EXPERT*<sup>5i</sup> Decision Support

- ***EXPERT*<sup>5i</sup> BlankRelease**  
Provides quality analysis of blanks and issues a release suggestion for next process or end customer.
- ***EXPERT*<sup>5i</sup> BlankRepair**  
Evaluates the quality of repair measures and frequently prevents downgrading of blanks – resulting in improved material utilization and higher profit.
- ***EXPERT*<sup>5i</sup> DefectTrend**  
Shows synchronized trend data of relevant surface defects spanning multiple charges. Instant defect notifications allow for immediate responses to process problems.
- ***EXPERT*<sup>5i</sup> DefectTracking**  
Isolates the origin and cause of defects, tracking the defects through the entire production process. Defect causes can be resolved quickly, reducing scrap while optimizing release decisions

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