



ENDOF LINE VISION AT



At Kongsberg Automotive Åmotfors *end of line inspection* is an integral part of the quality control.

Presence and position control of adhesives, and silicon paper, shape verification of circumference and wire presence and position control are checkpoints in the EOL quality control station.

There is a large number of product variants, each with a unique specification and shape. And the number of variants is growing.

The ScorpionVision system deployed to assist in the EOL inspection gets a product number from a barcode reader and activates a preconfigured toolbox capable of inspection the current product. This is an integral part of the Scorpion-Vision system known as *VARIANTS*, and keeps the complexity of the solution to

“With ScorpionVision in place, customer claims have taken a dive, and operator job satisfaction has increased dramatically”

-Karin Blick,
Quality Engineer

“Because our EOL vision solution is open and configurable, the process of adding new products to the inspection unit is reduced to a routine job, predictable both in price and performance”.

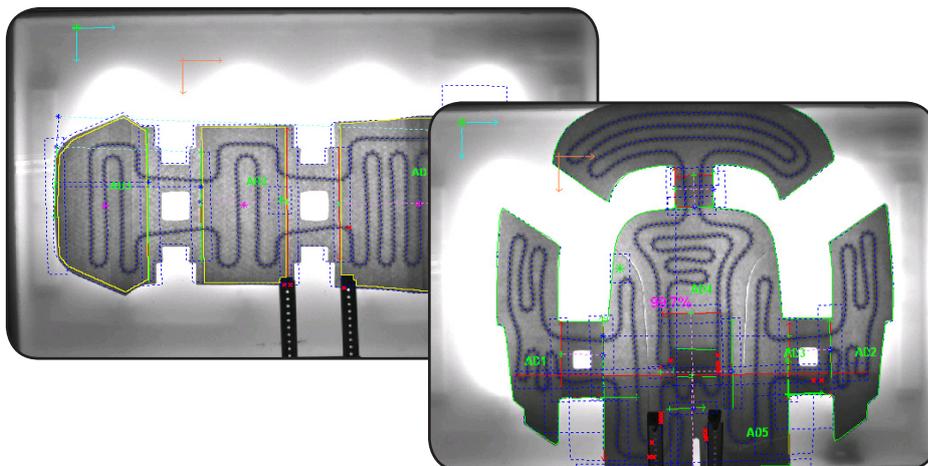
- Tom Ervik,
Senior process developer.

For more information:

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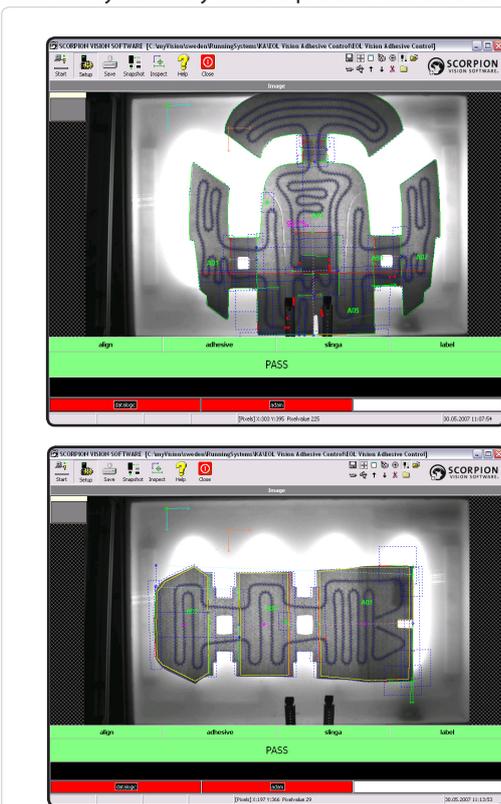


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WHY IT WORKS

The ScorpionVision ToolBox Tool makes it easy to create a generic solution on the topmost level. A sequence of procedures (ToolBox Tools) is formed, where each procedure changes content dynamically when a product variant is activated.



EOL vision techniques:

- lens calibration
- image resampling
- locate product
- alignment of product
- shape verification
- presence of features
- wire inspection - PolygonMatch
- user interaction - IO
- user interaction - graphics
- user interaction - panels
- user interaction - barcodereader
- product variants

Statistics:

- pareto graphs
- trend graphs
- reports

Logging:

- log any image to disk
- jpeg compression

SPECIFICATION OVERVIEW

PARAMETER	
Resolution	800 µm
Processing time	<2000ms pr product
Number of product variants	Unlimited (configurable)

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