INSPECTING GLUE AT

KONGSBERG AUTOMOTIVE

At Kongsberg Automotive Amotfors *Seat-Comfort* is the main business. Conducting heat-wires are attached to fabric with glue as a part of the manufacturing process, so it comes as no surprise that inspecting the glue distribution is of great importance.

ScorpionVision systems from Tordivel AS, capable of assessing the process, are put to work in the factory as a means of controlling the quality.

UV reflecting material is blended into the applied glue, rendering clear color images when acquired with a SONY DFW-SX910 camera.

The images provide the operator with an immediate visual feedback, but even more important, the advanced ScorpionVision solution segments the glue from the background and applies industry-strength image-processing algorithms to reject samples of non-conforming quality.

"*A great tool for assessing and controlling a complicated process. 100% in-line inspection in real-time is exactly what we were looking for*"
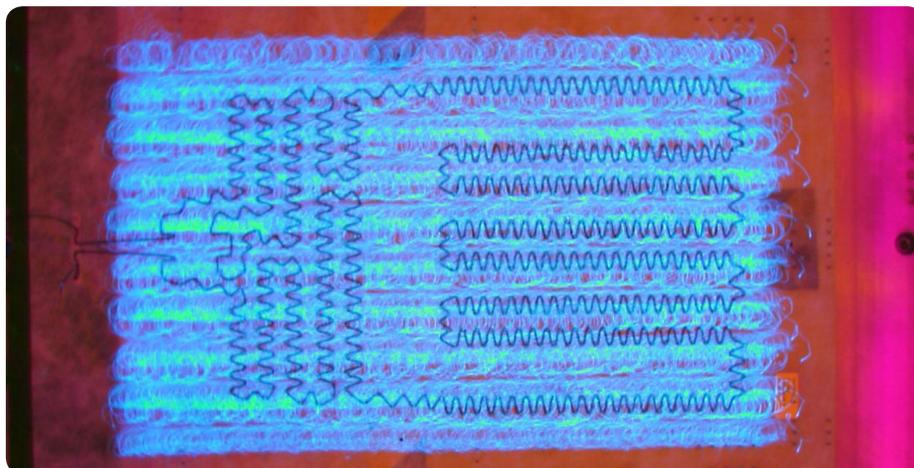- Andreas Grundel,
Production Manager Trim-Ad

"*customer glue-claims dropped dramatically after the deployment of ScorpionVision glue-inspection systems,*"
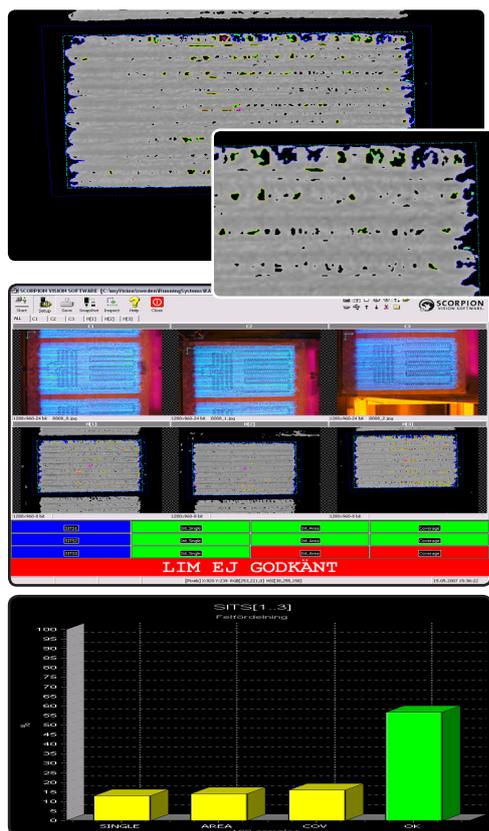- Tom Ervik,
Senior process developer

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TORDIVEL

WHY IT WORKS

The background color is controlled and allows for segmentation of the area applied with glue. The interior of the segmented area is then analyzed for non-coverage. The system operates in-line and in real-time allowing 100% inspection.

User defined settings:

• min coverage
• min neglectable defect
• max single defect
• max accumulated defects
• polygon ROIs

Visual feedback:

• color images
• uv segmented images
• pass/fail

Statistics:
• pareto graphs
• trend graphs
• reports

Logging:
• log any image to disk
• jpeg compression

Parameter	
Resolution	600 µm
Processing time	1000ms pr 3*product
Number of product variants	Unlimited (configurable)

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PolygonMatch™ is a trademark of Tordivel AS.