

QUISS



Reliable quality control
for safety-critical structural adhesive bonds



Laser line triangulation
for highest inspection quality
along edges and curves



Flexibly adaptable to various inspection tasks
with robust and compact design

RTVision.3d

Fully-automated 3D in-process
bead inspection

Powered by **QUISS**



ISRA
VISION
Part of Atlas Copco Group

RTVision.3d – Quality inspection in three dimensions




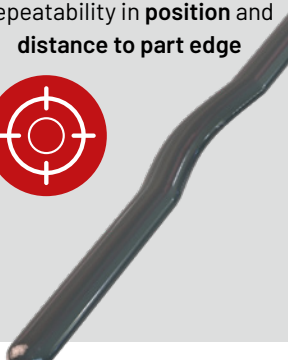



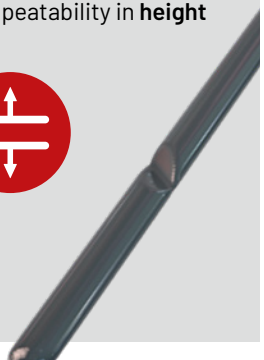
Checking the width, position and continuity of adhesive applications is essential for high quality automotive production. RTVision.3d enhances quality assurance by also capturing application height, providing insight into material volume. The 100% 3D in-process solution monitors critical applications such as structural bonding in BIW and defect-intolerant processes such as cell-to-cell bonding in battery manufacturing, making RTVision.3d ideal for quality inspection.



The RTVision.3d software generates a full point cloud and height image in real time using triangulation, automatically verifying bead width, height, position, and continuity. Its intuitive interface with clear OK/NOK indications ensures easy and efficient operation.

KEY FEATURES

- **High reliability**
with unique 6-camera and 6-laser configuration
- **Patented solution for maximum performance** and accuracy, especially along edges and curves
- **Robust design**, insensitive to ambient light
- **Automated bead identification**
with pre- and post-scan data
- **Independent of robot speed**,
reducing optimization efforts before SOP
- **Minimal teaching effort**
with automated bead tracking via robot coordinates
- **Easy integration or upgrade**
into existing systems

Repeatability

<p>± 0.5 mm* repeatability in adhesive gaps</p>  	<p>± 0.1 mm* repeatability in position and distance to part edge</p>  	<p>± 0.1 mm* (round beads) / ± 0.2 mm* (triangular beads) repeatability in width</p>  	<p>± 0.15 mm* repeatability in height</p>  
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Standard variant overview		 	
Application type	Round beads (blue laser)	Triangular beads (green laser)	
Working Distance	85 - 235 mm	55 - 235 mm	
Application speed	600 mm/sec		
Risk group	Class 2 laser (requires only basic security level)		
Inspectable dimensions	