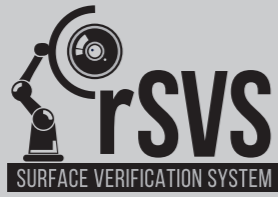


ABOUT AUTIS

AUTIS' industry-leading product portfolio includes:



DEFECT DETECTION
AND CLASSIFICATION



ROBOTIC DEFECT
DETECTION AND
CLASSIFICATION

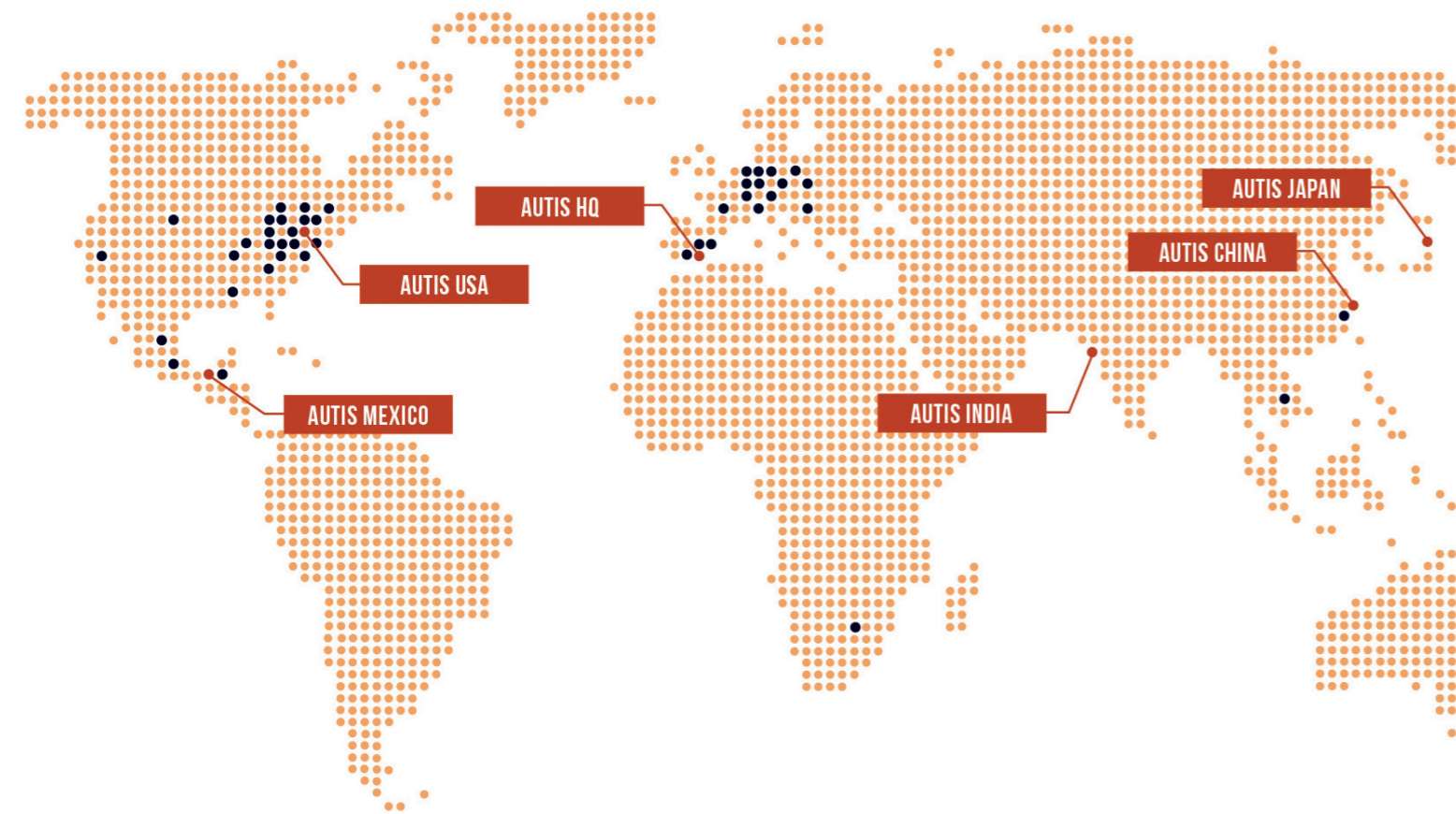


AUTOMATIC
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COLOR, APPEARANCE
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MEASUREMENT

AUTIS AUTOMATED SYSTEMS FOR INSPECTION OF PAINTED SURFACES WORLDWIDE



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**ROBOTIC PAINT INSPECTION AND
CLASSIFICATION SYSTEM FOR E-COAT,
PRIMER, AND CLEAR COAT SURFACES WITH
HIGH GEOMETRICAL COMPLEXITY**



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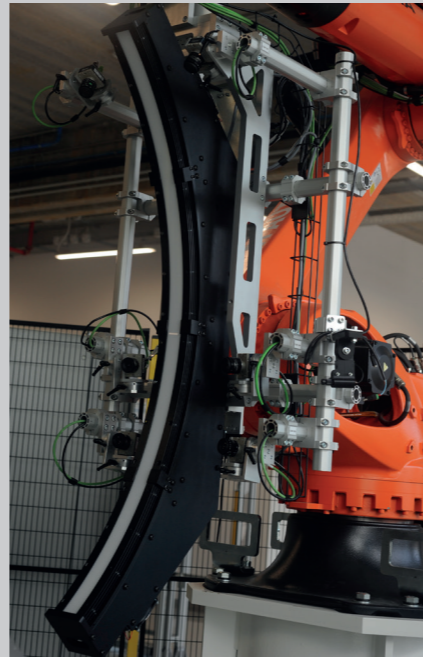


ROBOTIC PAINT INSPECTION AND CLASSIFICATION SYSTEM

The **robotic Surface Verification System (rSVS)** is a hi-tech project developed by **AUTIS** as an industrial **solution for the detection and classification of defects on e-coat, primer, and clear coat surfaces**. rSVS evolved directly from the **SVS technology** already deployed worldwide to focus on automotive parts with high geometrical complexity, e.g., bumpers, spoilers, liftgates, complex bodywork, etc.

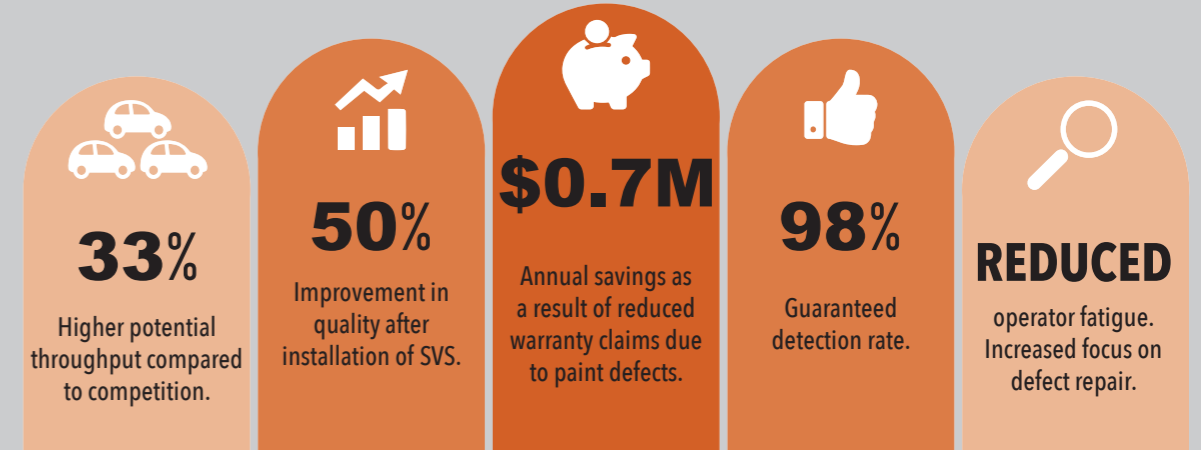
rSVS **technology** combines the **precision and flexibility** provided by industrial robots with existing **first class SVS detection features** to carry out automatic inspection on complex geometrical parts within the required cycle time during the flow of production. **rSVS robots** are equipped with **high resolution cameras** that work under a variety of lighting conditions to detect and classify defects. The process takes place while the part is stationary, and the robot follows a customized inspection path for each part.

By applying bespoke algorithms, **rSVS processes** the acquired images and detects various defects on all types of surfaces, including sealer, scratches, dirt, water drops, pops, boils, paint drops, human hair, and others.



rSVS BENEFITS

rSVS helps companies in the automotive industry who want to **improve their paint quality processes by increasing the accuracy of detection and classification of defects on curved surfaces** by means of advanced computer vision and artificial intelligence technology.



rSVS FEATURES

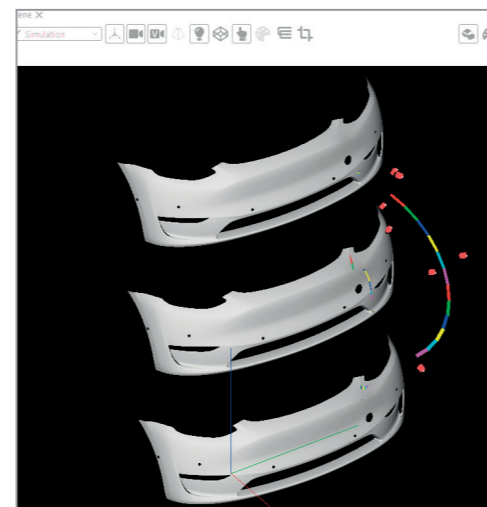
- 01** The use of a **robotic solution with vision inspection system** allows work on geometrically complex parts, such as bumpers, spoilers, liftgates, etc., that is not possible using only a tunnel application. It can also be easily integrated in the production line without requiring conveyor modifications.
- 02** rSVS can inspect **e-coat, primer, and clear coat surfaces**. The design of each **rSVS inspection station** takes into account the specific features of the surfaces to be inspected.



- 03** rSVS can inspect up to **98% of the body surface** and is equipped with high resolution cameras able to detect defects as small as **0.1 mm (0.038 in)**.

- 04** rSVS **inspection stations** are flexible systems, ready for future changes and new model retrofits enabling the installation of additional equipment and robot reprogramming.

- 05** rSVS **technology** is assisted by **simulation software** developed by **AUTIS** and customized for each **automatic inspection application** where robot trajectories, vision element design, and expected results are available off-line and prior to the start of the project.



rSVS TECHNOLOGY

