ABOUT AUTIS

AUTIS' industry-leading product portfolio includes:

SVS
SURFACE VERIFICATION SYSTEM

DEFECT DETECTION AND CLASSIFICATION

rSVS
SURFACE VERIFICATION SYSTEM
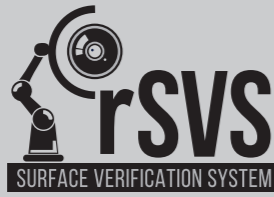
ROBOTIC DEFECT DETECTION AND CLASSIFICATION

SRS
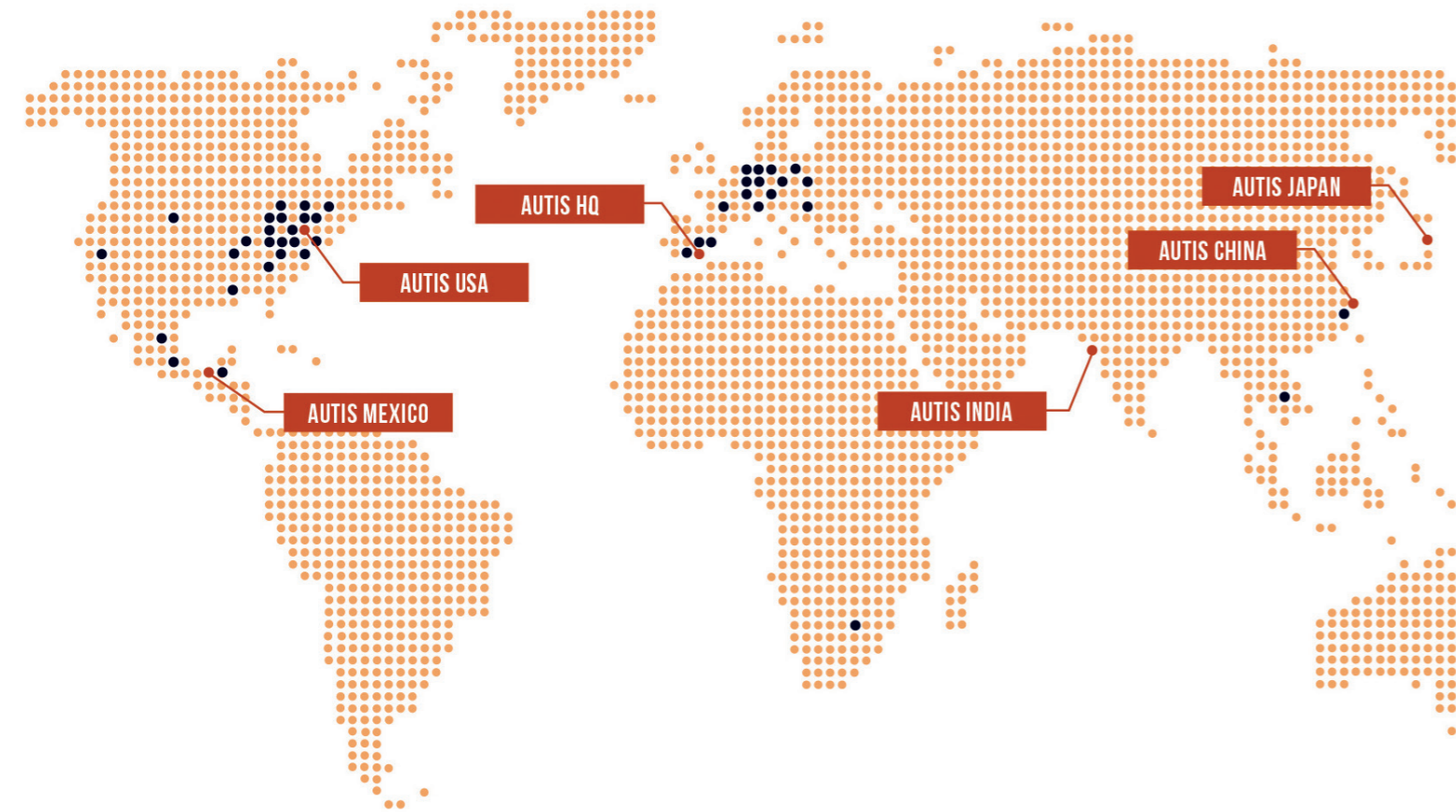SURFACE REPAIR SYSTEM

AUTOMATIC REPAIR

QMS
QUALITY MEASUREMENT SYSTEM

COLOR, APPEARANCE & THICKNESS MEASUREMENT

AUTIS AUTOMATED SYSTEMS FOR INSPECTION OF PAINTED SURFACES WORLDWIDE

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AUTIS

MAY2023

SRS
SURFACE REPAIR SYSTEM

AUTOMATIC REPAIR OF PAINT DEFECTS
FOR E-COAT, PRIMER AND CLEAR COAT SURFACES

AUTIS

AUTOMATIC REPAIR OF PAINT DEFECTS

The Surface Repair System (SRS) is **AUTIS´** response to increasing customer demand for an automated defect repair process. It is the logical next step following the successful worldwide deployment of **AUTIS Surface Verification Systems** (SVS) for defect detection and defect type classification.

SRS is able to accurately pinpoint defects on the painted surface and apply an **appropriate repair solution** to each defect based on its position, size, and - crucially - type. Repair input data are generated by **SVS** with the two systems dovetailing seamlessly.

Meeting the precise requirements of each repair procedure, e.g., time, pressure, speed, etc., is guaranteed by partnering with world renowned brands whose component parts are integrated in **SRS** to produce a sleek, modular, automated cell.

SRS BENEFITS

SRS helps companies in the automotive industry to improve their paint quality assurance systems by automating the last step of the paint process. Integrating state-of-the-art repair kits and compensators, **SRS** is the **direct result of AUTIS' demonstrated expertise in robotics**, process automation and system integration.

ON THE SPOT
Accurate positioning to reduce repair footprint.

AT THE RIGHT ANGLE
Knowing the geometry allows the best approach to style lines.

ANNUAL SAVINGS
Building on SVS´ sound business case from reduced manpower, reworks, scraps and warranty claims.

IMPROVED EFFICIENCY
Personnel can be deployed to handle less repetitive tasks.

REPEATABLE SCALABLE
Confidence in a job done right with room to grow and adapt.

SRS FEATURES

01 **SRS** can be integrated not only as static cells, but also as **dynamic** ones with the use of a 7th axis and **accurate positioning technology** to track the vehicle and apply the sanding and polishing pad in the defect's precise location.

02 **SRS** can be deployed **following SVS defect detection and classification** for any surface: **e-coat, primer and clear coat**. This allows defect correction at the earliest opportunity, avoiding their propagation to subsequent coats where repair would become more difficult.
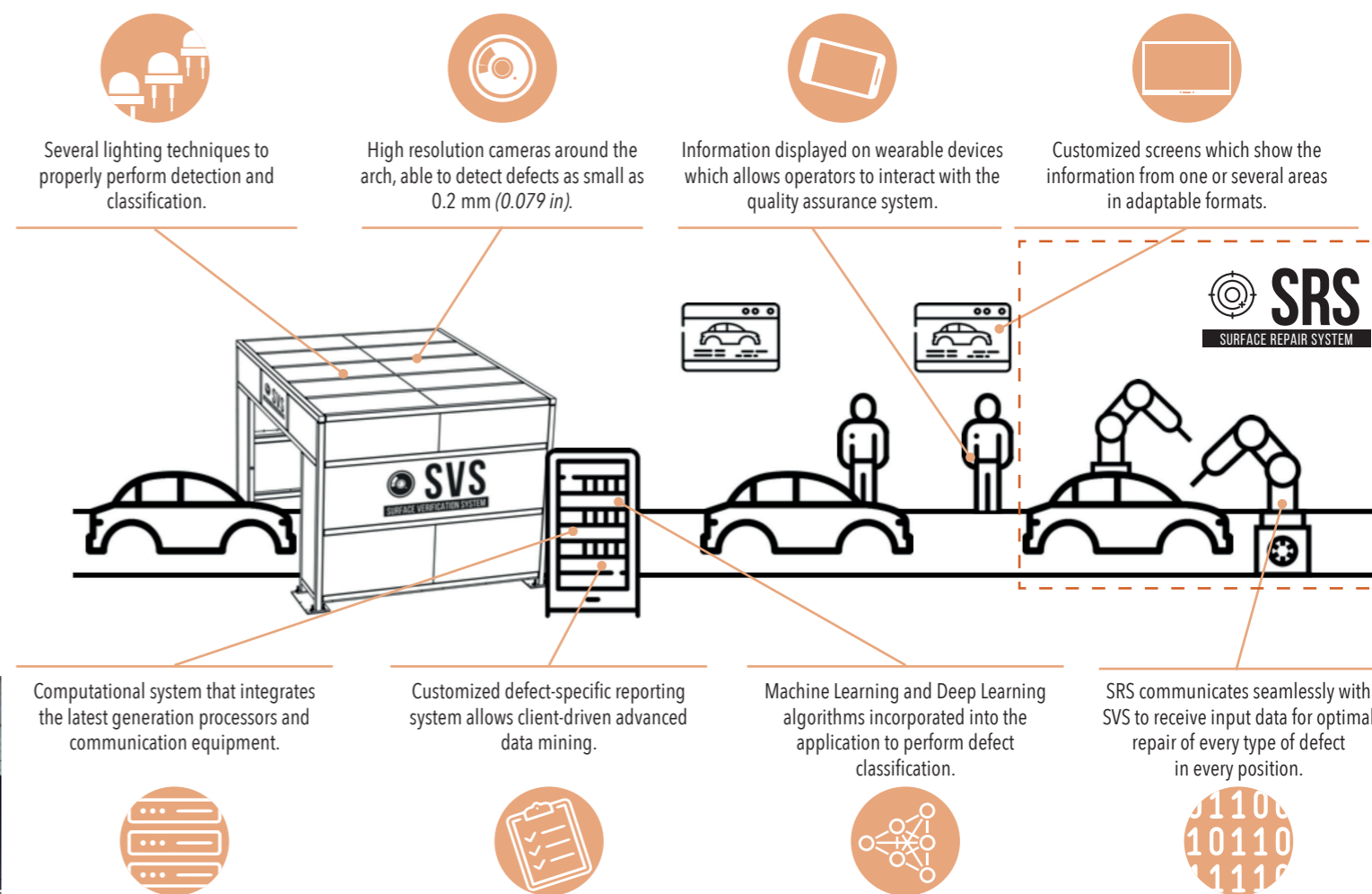
E-COAT

PRIMER

CLEAR COAT

03 **SRS** can prioritize defect repair based on size, number, location, quality zone and type. Robot workload can be managed to **optimize the cell's repair efficiency and effectiveness.**

04 **SRS** has a **modular design with AUTIS architecture** at its core while catering to individual client needs as regards **customization** of equipment such as robots, repair tools, force compensators, etc.

05 With **AUTIS' Link-Repair solution**, **SRS** can receive all the data generated by SVS *(or other inspection systems)* such as defect position, size, classification, body part location, etc.

SRS TECHNOLOGY

Several lighting techniques to properly perform detection and classification.

High resolution cameras around the arch, able to detect defects as small as 0.2 mm *(0.079 in)*.

Information displayed on wearable devices which allows operators to interact with the quality assurance system.

Customized screens which show the information from one or several areas in adaptable formats.

Computational system that integrates the latest generation processors and communication equipment.

Customized defect-specific reporting system allows client-driven advanced data mining.

Machine Learning and Deep Learning algorithms incorporated into the application to perform defect classification.

SRS communicates seamlessly with SVS to receive input data for optimal repair of every type of defect in every position.

24/7 ONLINE SUPPORT AND MAINTENANCE SERVICE BY AUTIS SPECIALIST ENGINEERS

INTEGRATION IN PLANT QUALITY AND CONTROL SYSTEMS TO ALLOW CUSTOMERS TO VERIFY THE STATUS OF THE SVS SYSTEM